PB85-127991

Water Resources Data for New York, Water Year 1983 Volume 3. Western New York

(U.S.) Geological Survey, Ithaca, NY

Jun 84

U.S. Department of Commerce
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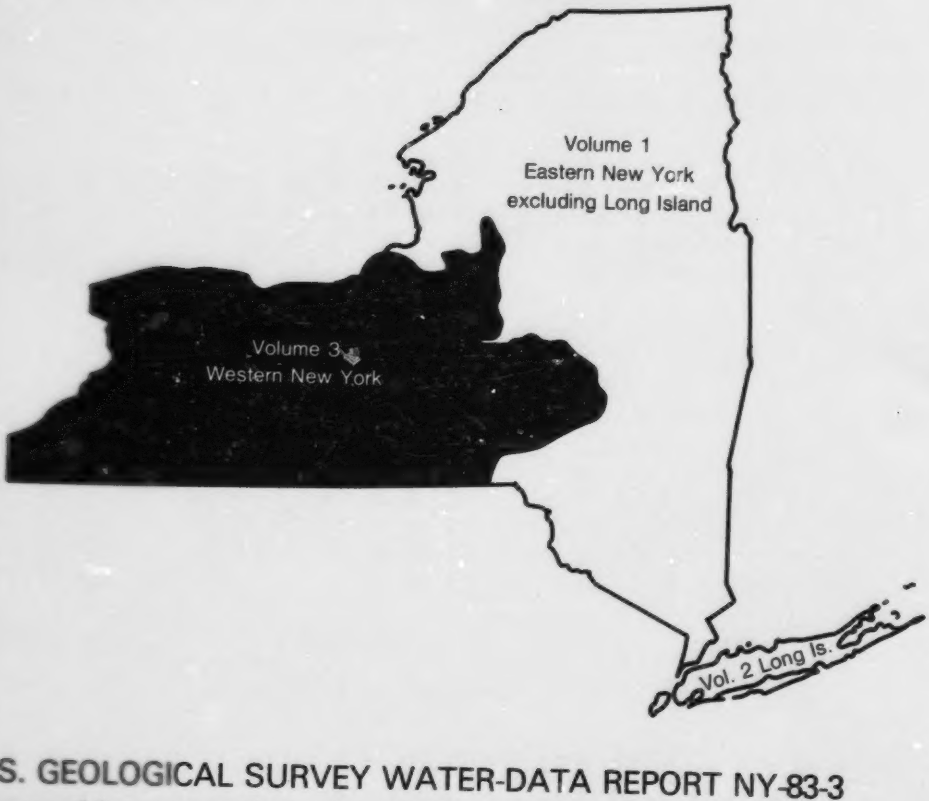
PB85-127991

Water Resources Data
New York
Water Year 1983

Volume 3. Western New York



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-83-3
Prepared in cooperation with the State of New York
and with other agencies

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U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1983

1982

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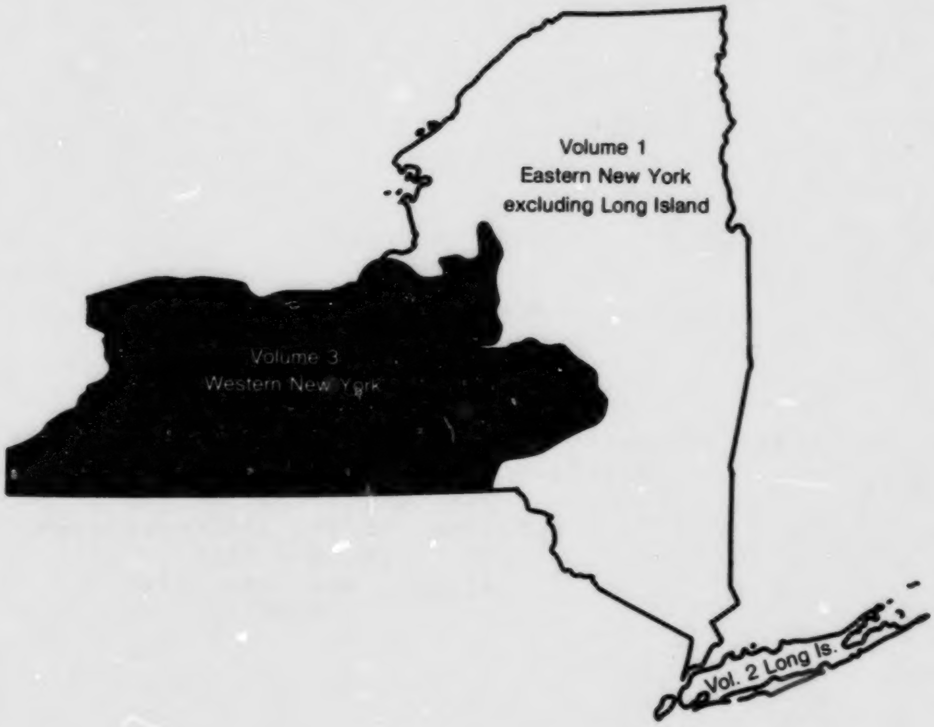
U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

Water Resources Data
New York
Water Year 1983

Volume 3. Western New York

by J.B. Hood, W.H. Johnston, J.H. Zajd, Jr., H.L. Dixson



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-83-3
Prepared in cooperation with the State of New York
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in New York write to
District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Courthouse
P.O. Box 1350
Albany, New York 12201
1984

PREFACE

This volume of the annual hydrologic data report of New York is one of a series of annual reports that document hydrologic data gathered from the U. S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New York are contained in three volumes:

Volume 1. Eastern New York excluding Long Island
Volume 2. Long Island
Volume 3. Western New York

In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

A. C. Brown
W. F. Coon
D. B. Cummings
D. D. Deloff
W. E. Harding
R. L. Mulks
D. A. Sherwood
M. J. Welsh
C. O. Szabo

S. J. Woodward and M. L. Evans typed the text of the report.

This report was prepared in cooperation with the State of New York and with other agencies under the general supervision of L. A. Martens, District Chief, New York.

50272-101

REPORT DOCUMENTATION PAGE

1. REPORT NO. USGS/WRD/HD-84/034

2.

3. Recipient's Accession No. PB85 127991

4. Title and Subtitle
Water Resources Data for New York, Water Year 1983
Volume 3. Western New York

5. Report Date June 1984

6.

7. Author(s) J. B. Hood, W. H. Johnston, H. J. Zajd, Jr., and H. L. Dixson

8. Performing Organization Rept. No. USGS-WDR-NY-83-3

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
521 West Seneca Street
Ithaca, New York 14850

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
U.S. Post Office and Courthouse
P.O. Box 1350
Albany, New York 12201

13. Type of Report & Period Covered Annual - October 1, 1982 to Sept. 30, 1983

14.

15. Supplementary Notes

Prepared in cooperation with the State of New York and other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1983 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 84 gaging stations; stage only at 14 gaging stations; stage and contents at 6 gaging stations; water quality at 14 gaging stations; and water levels at 20 observation wells. Also included are data for 63 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and seepage investigations. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

17. Document Analysis a. Descriptors

*New York, *Hydrologic data, *Surface water, *Ground water, *Water quality, Streamflow, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water analysis, Water temperature, Water levels, Water wells, Data collection, Sites, Seepage investigation.

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement: No restriction on distribution
This report may be purchased from:
National Technical Information Service
Springfield, Va. 22162

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 214

22. Price

(See ANSI-Z39.18)

See Instructions on Reverse

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)
Department of Commerce

CONTENTS

Page

Preface........ III
List of gaging stations, in downstream order, for which records are published...... VI
Introduction........ 1
Cooperation........ 1
Summary of hydrologic conditions........ 2
Definition of terms........ 3
Downstream order and station numbers........ 10
Numbering system for wells........ 10
Special networks and programs........ 10
Explanation of stage and water-discharge records........ 11
  Collection and computation of data........ 11
  Accuracy of field data and computed results........ 13
  Other data available........ 13
Explanation of water-quality records........ 13
  Classification of records........ 13
  Arrangement of records........ 13
  Descriptive headings........ 14
  Categories of water-quality data........ 14
  Frequency-of-sampling notation........ 14
  Water analysis........ 15
  Water temperatures........ 15
  Sediment........ 15
  Revisions........ 16
Explanation of ground-water level records........ 16
  Collection of data........ 16
Access to WATSTORE........ 16
Publications on techniques of water-resources investigations........ 17
Gaging station records........ 22
Discharge at partial-record stations and miscellaneous sites........ 167
  Crest-stage partial-record stations........ 167
  Miscellaneous sites........ 174
  Seepage Investigations........ 177
Ground-water records........ 183
  Ground-water levels........ 183
Index........ 203

ILLUSTRATIONS

Figure 1. System for numbering wells........ 10
2. Hydrographic comparisons, Susquehanna River at Conklin, NY........ 18
3. Hydrographic comparisons, Allegheny River at Salamanca, NY........ 19
4. Map showing location of gaging stations and observation wells in western New York........ 20,21
5. Map showing gaging stations and transbasin diversion, Cohocton River-Keuka Lake area........ 46

TABLE

Table 1. Factors for converting inch-pound units to International System Units (SI)........ inside of back cover

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letter after station name designates type of data: (d) discharge, (e) contents and/or elevation, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

NORTH ATLANTIC SLOPE BASINS   Page

SUSQUEHANNA RIVER BASIN

- Susquehanna River:
  - Oaks Creek at Index (d) 22
  - Ouleout Creek:
  - East Sidney Lake at East Sidney (e) 23
  - Ouleout Creek at East Sidney (d) 24
- Susquehanna River at Unadilla (d) 25
  - Unadilla River:
    - Butternut Creek at Morris (d) 26
  - Unadilla River at Rockdale (d) 27
- Susquehanna River at Conklin (d) 28
  - Chenango River at Sherburne (d) 29
    - East Branch Tioughnioga River (head of Tioughnioga River):
      - West Branch Tioughnioga River:
      - West Branch Tioughnioga River at Homer (d) 30
    - Tioughnioga River at Cortland (dt) 31
      - Otselic River at Cincinnatus (d) 33
      - Whitney Point Lake at Whitney Point (e) 34
  - Chenango River near Chenango Forks (d) 35
- Susquehanna River at Johnson City (t) 36
- Susquehanna River near Waverly (d) 37
  - Tioga River (head of Chemung River) at Lindley (d) 38
    - Canisteo River:
    - Arkport Reservoir near Arkport (e) 39
    - Canisteo River at Arkport (d) 40
      - Canacadea Creek:
      - Almond Lake near Almond (e) 41
      - Canacadea Creek near Hornell (d) 42
    - Canisteo River below Canacadea Creek, at Hornell (d) 43
  - Tioga River near Erwins (d) 44
      - Fivemile Creek near Kanona (d) 45
      - Diversion from Waneta Lake to Keuka Lake at Keuka (d) 46
    - Cohocton River near Campbell (d) 47
  - Chemung River at Corning (d) 48
    - Newtown Creek at Elmira (d) 49
  - Chemung River at Chemung (d) 50
- Lakes and reservoirs in Susquehanna River basin (de) 51

* * * * * * * *

OHIO RIVER BASIN

ALLEGHENY RIVER BASIN

- Allegheny River (head of Ohio River) at Salamanca (d) 52
  - Conewango Creek at Waterboro (d) 53
    - Cassadaga Creek:
      - Chautauqua Lake (head of Chadakoin River) at Bemus Point (e) 54
      - Chadakoin River at Falconer (d) 55
- Lakes in Allegheny River basin (e) 56

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

Page

* * * * * * * *

ST. LAWRENCE RIVER BASIN
Lake Erie:
STREAMS TRIBUTARY TO LAKE ERIE
Cattaraugus Creek:

Cattaraugus Creek at Gowanda (dcbts).. 57

Buffalo Creek (head of Buffalo River):

Buffalo Creek at Gardenville (d).. 61
Cayuga Creek near Lancaster (d).. 62

Buffalo River:

Cazenovia Creek at Ebenezer (d).. 63
Lake Erie at Buffalo (e).. 64

ST. LAWRENCE RIVER MAIN STEM

Niagara River at Buffalo (d).. 65

STREAMS TRIBUTARY TO NIAGARA RIVER

Scajaquada Creek at Buffalo (d).. 66
Tonawanda Creek at Attica (d).. 67
Little Tonawanda Creek at Linden (d).. 68
Tonawanda Creek at Batavia (dcbts).. 69
Tonawanda Creek near Alabama (d).. 73
Murder Creek near Akron (d).. 74
Tonawanda Creek at Rapids (d).. 75
Ellicott Creek below Williamsville (d).. 76
Erie (Barge) Canal at Lock 30, Macedon (d).. 77
Niagara River (Lake Ontario) at Fort Niagara (cbts).. 78

Lake Ontario:
STREAMS TRIBUTARY TO LAKE ONTARIO

Genesee River at Wellsville (d).. 81
Genesee River at Portageville (d).. 82
Mount Morris Lake near Mount Morris (e).. 83
Canaseraga Creek above Dansville (d).. 84
Canaseraga Creek at Shakers Crossing (d).. 85
Genesee River near Mount Morris (d).. 86
Conesus Lake near Lakeville (e).. 87
Genesee River at Avon (d).. 88
Honeoye Lake (head of Honeoye Creek) near Honeoye (e).. 89
Honeoye Creek at Honeoye Falls (d).. 90
Oatka Creek at Warsaw (d).. 91
Oatka Creek at Garbutt (d).. 92
Genesee River at Ballantyne Bridge near Mortimer (e).. 93
Black Creek at Churchville (d).. 94
Genesee River at Rochester (d).. 95
Genesee River at Charlotte Docks at Rochester (cbts).. 96
Irondequoit Creek near Pittsford (d).. 99
Thomas Creek at Fairport (d).. 100
Irondequoit Creek at Linden Avenue, East Rochester (d).. 101
Allen Creek near Rochester (d).. 102
Irondequoit Creek at Blossom Road, Rochester (d).. 103
Sterling Creek at Sterling (d).. 104

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

Page

ST. LAWRENCE RIVER BASIN--Continued

Lake Ontario:--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO--Continued

Seneca River (head of Oswego River):
Seneca Lake at Watkins Glen (e) ... 105
Keuka Inlet (Keuka Lake) at Hammondsport (e) ... 106
Keuka Lake Outlet at Dresden (d) ... 107
Cayuga Inlet near Ithaca (d) ... 108
Cayuga Inlet (Cayuga Lake) at Ithaca (e) ... 109
Fall Creek near Ithaca (d) ... 110
Clyde River:
Canandaigua Lake at Canandaigua (e) ... 111
Canandaigua Outlet at Chapin (d) ... 112
Flint Creek at Phelps (d) ... 113
Owasco Lake near Auburn (e) ... 114
Owasco Outlet near Auburn (d) ... 115
Skaneateles Lake at Skaneateles (e) ... 116
Seneca River at Baldwinsville (d) ... 117
Onondaga Creek (head of Onondaga Lake Outlet):
Onondaga Reservoir near Nedrow (e) ... 118
Onondaga Creek at Dorwin Avenue, Syracuse (d) ... 119
Onondaga Creek at Spencer Street, Syracuse (d) ... 120
Onondaga Lake:
Harbor Brook at Syracuse (d) ... 121
Harbor Brook at Hiawatha Boulevard, Syracuse (d) ... 122
Ley Creek at Park Street, Syracuse (d) ... 123
Otisco Lake:
Spafford Creek at Bromley Road near Spafford (dcs) ... 124
Spafford Creek at Sawmill Road near Spafford (dcs) ... 129
Rice Brook at Rice Grove (dcs) ... 134
Willow Brook at Lader Point (dcs) ... 138
Amber Brook at Amber (dcs) ... 142
VanBenthuysen Brook near Amber (dcs) ... 146
Ninemile Creek near Marietta (dc) ... 150
Ninemile Creek at Lakeland (d) ... 152
Onondaga Lake at Liverpool (e) ... 153
Fish Creek (head of Oneida River):
East Branch Fish Creek at Taberg (d) ... 154
Oneida River (Oneida Lake):
Oneida Creek at Oneida (d) ... 155
Chittenango Creek:
Limestone Creek at Fayetteville (d) ... 156
Butternut Creek near Jamesville (d) ... 157
Meadow Brook at Hurlburt Road, Syracuse (d) ... 158
Oneida Lake at Brewerton (e) ... 159
Oneida River at Caughdenoy (d) ... 160
Oswego River at Lock 7, Oswego (dcbts) ... 161
Lakes and reservoirs in streams tributary to Lake Ontario ... 165
Lake Ontario at Oswego (e) ... 166

WATER RESOURCES DATA FOR NEW YORK, 1983
Volume 3.--Western New York

INTRODUCTION

Water resources data for the 1983 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 84 gaging stations; stage only at 14 gaging stations; stage and contents at 6 gaging stations; water quality at 14 gaging stations; and water levels at 20 observation wells. Also included are data for 63 crest-stage partial-record stations. Locations of these sites are shown on figure 4. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as measurements made at miscellaneous sites and seepage investigations. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-83-3." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (518) 472-3107.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data included in Volume 3, water year 1983, through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation
New York State Department of Transportation
New York State Education Department
County of Chautauqua, Planning Department
County of Cortland, Planning Department
County of Monroe, Department of Health
County of Monroe, Division of Engineering
County of Monroe, Water Authority
County of Onondaga, Department of Public Works
County of Onondaga, Water Authority Commission
City of Auburn
City of Rochester, Water Bureau
Irondequoit Bay Pure Waters District

Assistance in the form of funds for collecting records at gaging stations published in this report was also given by the U.S. Army Corps of Engineers and the Environmental Protection Agency.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Cortland, Jamestown, Lancaster, Oneida, Rochester, Syracuse; Cornell University; New York State Electric and Gas Corp.; Niagara Mohawk Power Corp.; Rochester Gas and Electric Corp.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

The 1983 water year in Western New York began with near record-low monthly streamflow in the Susquehanna, Chemung, and upper Genesee River basins, with normal streamflow elsewhere. Above-average precipitation in November increased streamflow in the upper Genesee River basin to the normal range. During December through mid-January, precipitation was below average and temperatures above average. Snow during the last half of January was followed by rain and above-average temperatures in February that melted the snow and increased runoff in all areas to the normal range or above (figs. 2 and 3). Runoff receded until late April, when a heavy snowfall blanketed the State from the Finger Lakes eastward. Warm spring temperatures and rain quickly melted the snow, increased streamflow in the Susquehanna River basin to above normal, and caused flooding along the shore of Cayuga Lake and downstream on the Seneca River. Precipitation was generally near normal during May and June and generally below average during July through September. By the end of September, streamflow had receded from April highs to either normal seasonal levels or below.

The mean monthly discharge of the Susquehanna River at Conklin during October was the lowest since 1965 and is the second lowest for October since the station was established in 1912.

Rapid melting of the heavy snow that fell on April 19 from the Finger Lakes eastward was followed by rain on April 25, which caused Cayuga Lake to rise above flood stage for several days. Strong winds sent waves battering against lakeside docks and cottages, and 20 cottages became inundated.

Ground-water levels in western New York and the Finger Lakes area were slightly below normal at the beginning of the water year but had recovered to above normal as a result of mid-November and early December rains and the resultant high runoff. During the winter, ground-water levels declined from earlier highs to near-normal levels and continued to decline as a result of below-average snowfall until mid-April and early May, when heavy precipitation caused unusually high ground-water levels. Sparse precipitation during the remainder of the growing season caused ground-water levels to decline to nearly normal by September. However, a new record low occurred in September at well CY-7, in Cayuga County.

Water samples taken from the five NASQAN stations in western New York indicated no significant changes in chemical quality from previous years, although an indication of deteriorated biological quality was noted at two sites. Fecal coliform counts of 12,000 per 100 mL were measureed at Cattaraugus Creek at Gowanda on July 6 and August 17; Tonawanda Creek at Batavia also had a fecal coliform count of 12,000 per 100 ml on July 6; each of these values exceeds the previous maximum observed at those sites.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound system units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material See Bottom material.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceos organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium, for example water, that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu g/g$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, $\mu g/L$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organic carbon (OC) is a measure of the organic matter present in aqueous solution and (or) suspension. May be reported in any of three categories (DOC, dissolved organic carbon; SOC, suspended organic carbon; TOC, total organic carbon).

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottomwithdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or Sieve
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. The sample is subjected to mechanical and chemical dispersion in distilled water before analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of algae, fungi, and bacteria which are attached to or live upon submerged objects in lakes and rivers.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated napthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated napthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg $C/(m^2.time)$ for periphyton and macrophytes and mg $C/(m^3.time)$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg $O_2/(m^2.time)$ for periphyton and macrophytes and mg $O_2/(m^3.time)$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occuring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization or organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in table of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.................Animal
Phylum..............Arthropoda
Class..................Insecta
Order............Ephemeroptera
Family.............Ephemeridae
Genus................ Hexageria
Species......Hexagenia limbata

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total (as used in tables of chemical analyses):

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative watersuspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station, partial-record station, and miscellaneous site has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01502500 includes the 2-digit part number "01" plus the 6-digit downstream order number "502500". In a few instances where no gaps were left in the 8-digit numbering sequence, one or two digits were added (making a 9- or 10-digit station number) and (or) a latitude-longitude number was used for identification.

NUMBERING SYSTEM FOR WELLS

The 8-digit downstream order station numbers are not assigned to wells. The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. See figure 1 below.

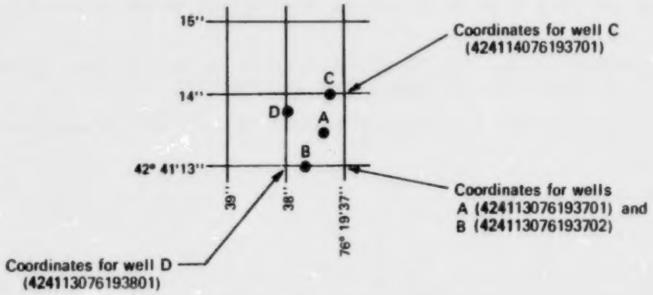

15''
14''
42° 41'13''
39''
38''
76° 19'37''
C
D
A
B
Coordinates for well C (424114076193701)
Coordinates for wells A (424113076193701) and B (424113076193702)
Coordinates for well D (424113076193801)

Figure 1. System for numbering wells (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consulation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stagedischarge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shiftingcontrol method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and computing the discharge in the usual manner yield incorrect results. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The daily contents are computed from gage heights and capacity tables, then the daily, monthly, and yearly change of contents are computed from the daily figures.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage for some stations, given under "LOCATION", is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a "REVISED RECORDS" paragraph has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in the section, "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The table of daily discharge for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the table, the "TOTAL" line gives the sum of the daily figures. The "MEAN" line gives the average flow in cubic feet per second during the month. The "MAX" and "MIN" lines give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile ("CFSM" line), or in inches ("IN." line). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stagedischarge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the location of the water quality sampling site differs significantly from that of the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appear next. The table of ground-water quality data follows the ground-water level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number.

Descriptive Headings

For continuing record stations, data are preceded by information pertinent to the history of station operation. These descriptive headings give details regarding locations, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Headings for precipitation-quality records include location information and a description of the sample collector.

Categories of Water-Quality Data

There is a broad range of water-quality parameters available for most stations whose record exceeds more than a few years operation. Sampling schedules are often intermittant for certain types of data, with analyses available for some but not all years within a stations's period of record. An acurate description of the variety of data available is shown by grouping similar parameters into a few general categories, which are listed in the "PERIOD OF RECORD" paragraph. Each category of data is followed by a notation of the water year(s) for which data is available and a letter code describing the frequency of sampling (see following section, "Frequency-of-Sampling Notation").

The "PERIOD OF RECORD" paragraph lists the following categories of data to describe information available.

CHEMICAL DATA: Usually includes most of the "major ions", and may often include some of the following physical properties: specific conductance, pH, temperature, color, turbidity, dissolved oxygen.

MINOR ELEMENT DATA: Comprises the "heavy metals" and some of the "alkaline earth" groups. Determinations usually include some but not all of the following: Al, As, Ba, Cd, Cr, Co, Cu, Hg, Li, Ni, Pb, Se, Sn, Sr, Zn.

RADIOCHEMICAL DATA: The determinations of the concentration of individual radioactive elements, such as radium 226, cobalt 60, strontium 90, and tritium. This category also includes the gross mesurement of radioactivity (alpha, beta, gamma) without regard to the radiochemical species that produce the radioactivity.

PESTICIDE DATA: The organic compounds (insecticides and herbicides) used to control insects and plants. Routinely, the analyses searches for traces of between 12 to 22 compounds.

ORGANIC DATA: Organic data (other than pesticides) such as OC, PCB, PCN.

NUTRIENT DATA: Constituents containing nitrogen or phosphorus. Results usually include several of the following: nitrite plus nitrate, phosphorus, ammonia nitrogen, organic nitrogen, ammonia nitrogen plus organic nitrogen (Kjeldahl nitrogen).

BIOLOGICAL DATA: The identification and concentration of microscopic plant organisms (phytoplankton, periphyton), or enteric bacteria (total coliform, fecal coliform, or fecal streptococcal) living in aquatic habitats.

SEDIMENT DATA: Suspended-sediment concentration, suspended-sediment discharge, and particle-size data for discrete samples.

Frequency-of-Sampling Notation

The categories of data given in the "PERIOD OF RECORD" paragraph are followed by the water year(s) for which that kind of data was collected. The amount of data available is specified by the following letter codes:

(a) 1 or 2 samples per year.
(b) 3 to 5 samples per year.
(c) 6 to 9 samples per year.
(d) 10 to 20 samples per year.
(e) more than 20 samples per year.

Thus, "CHEMICAL DATA: 1972-74(c), 1977-82(a).", shows there are at least six analyses each year for the first three years of record, no data for this category in 1975 and 1976, and 1 or 2 samples for each of the five additional years.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on page 17.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Terminology used in reporting chemical constituents is an indication of whether all or only part of a constituent associated with the solids in a water-quality sample is determined by a chemical analysis. (See preceding section, "Definition of Terms.") The "recoverable" in the terms "Suspended, recoverable", "Total, recoverable", and "Recoverable from bottom material" indicates that the constituent was digested by a method that results in the dissolution of only readily soluble substances. Thus, the determination may not represent all of the constituent actually present in the sample. The "total" in the terms "Total", "Suspended, total", and "Total in bottom material" is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Ground-water level data consist of water-level measurements made in observation wells. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well; National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported as mean daily values, then monthly and yearly means are computed from the daily figures. Water levels in wells not equipped with recording gages are measured periodically, usually weekly, with a weighted tape.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

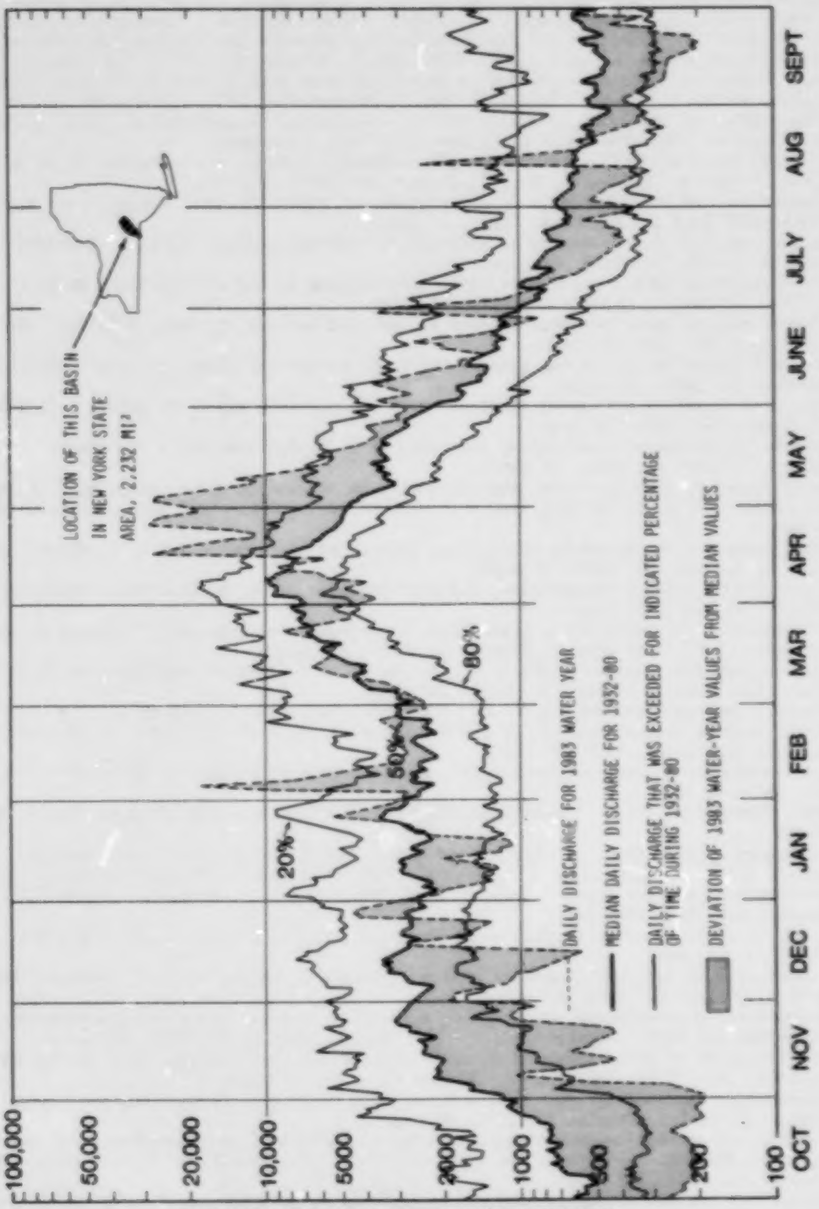


Figure 2.--Hydrographic comparisons, Susquehanna River at Conklin, N.Y.

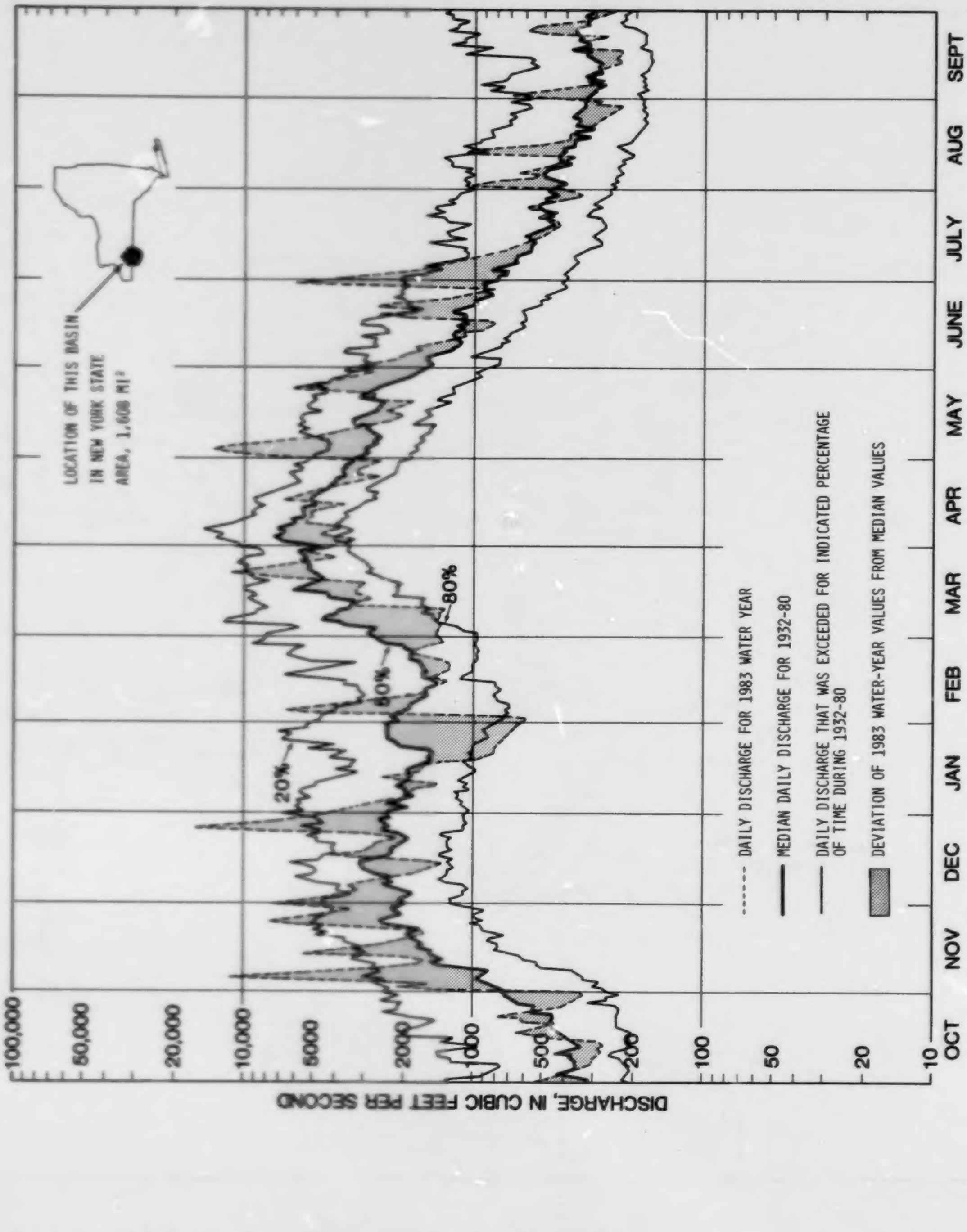
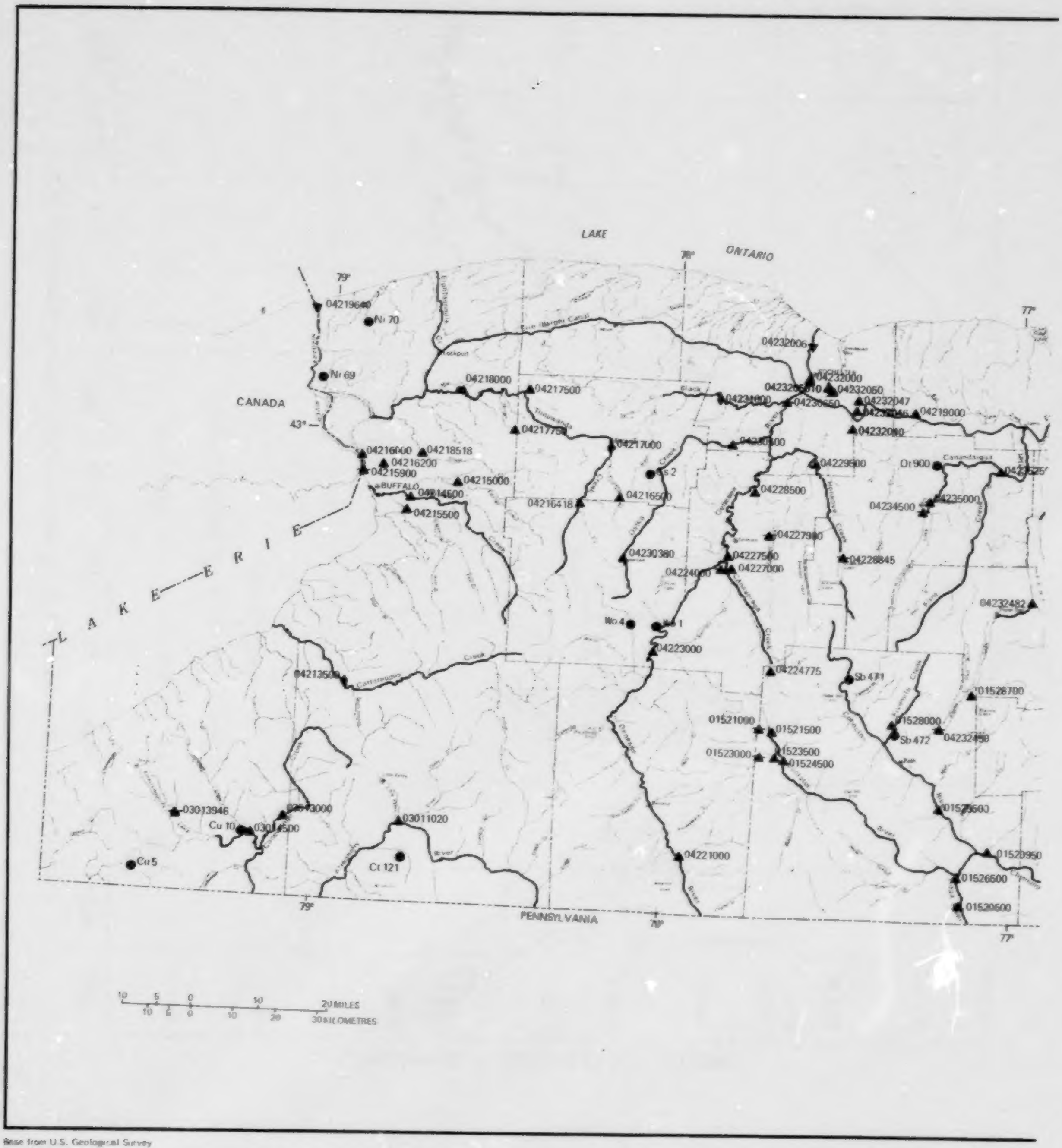
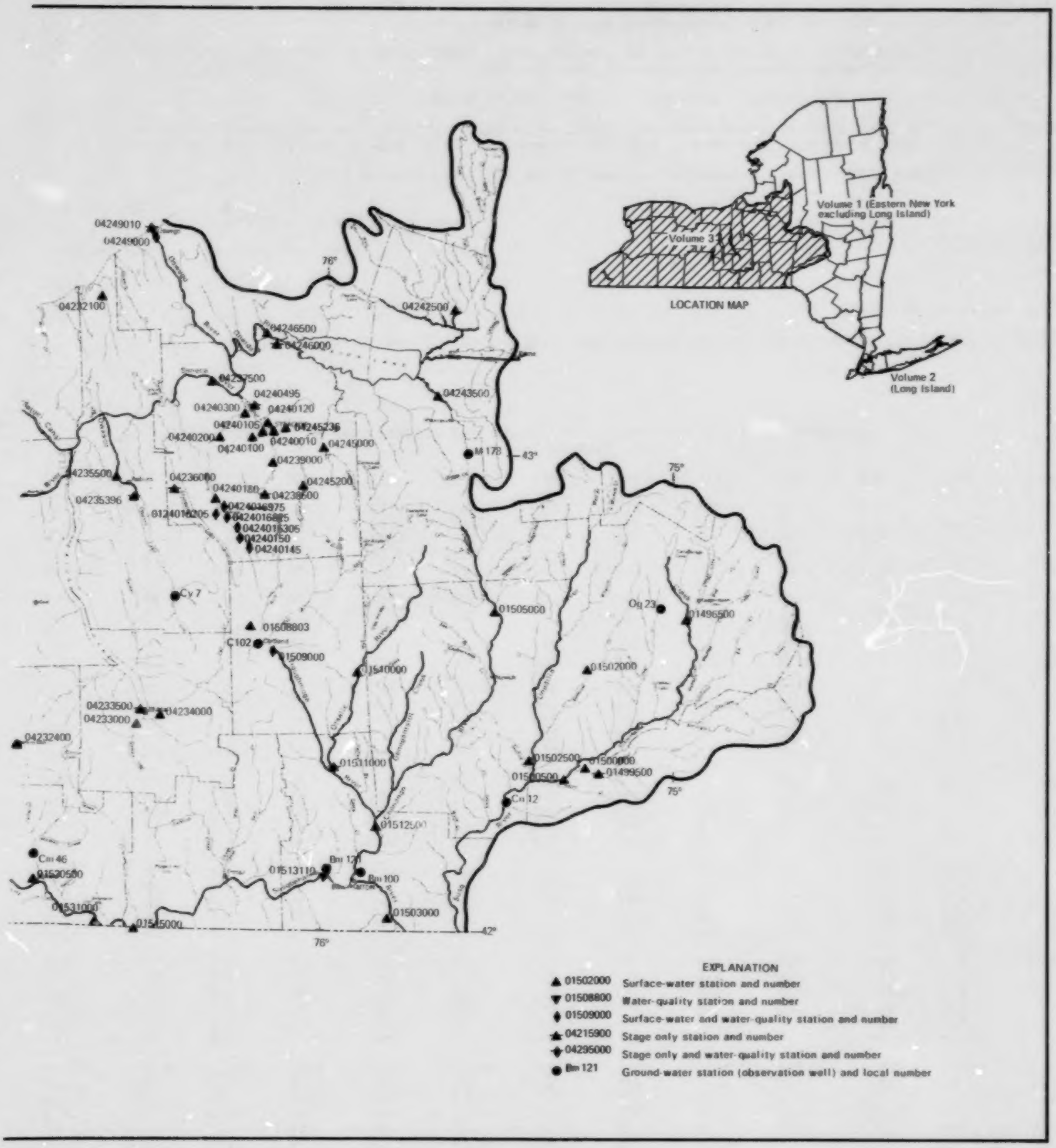


Figure 3.--Hydrographic comparisons, Allegheny River at Salamanca, N.Y.



Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956

FIGURE 4.-- LOCATION OF GAGING STATIONS



AND OBSERVATION WELLS IN WESTERN NEW YORK

01496500 OAKS CREEK AT INDEX, NY

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 0.5 mi upstream from mouth, and 3 mi southwest of Cooperstown.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.47 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1932, nonrecording gage at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Prior to June 1964, flow regulated by natural storage in Canadarago Lake, thereafter by dam at outlet.

AVERAGE DISCHARGE.--48 years (1931-32, 1938-83), 171 ft^3/s, 22.77 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft^3/s Oct. 17, 1977, from rating extended above 1,700 ft^3/s by lograthmic plotting, gage height, 7.62 ft; minimum, 1.3 ft^3/s Aug. 4, 5, 1962, gage height, 1.79 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 16	1400	1,180	a5.39	May 2	1200	*1,370	*a5.84
Apr.25	1300	1,350	a5.82				

a Backwater from tree.

Minimum discharge, 3.7 ft^3/s Oct. 11-13; minimum gage height, 2.07 ft Oct. 11-13, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.1	59	92	118	139	293	1190	168	26	7.0	11
2	6.2	5.1	53	88	136	152	283	1260	142	23	6.7	10
3	6.2	5.1	50	87	261	172	286	1180	126	22	6.0	10
4	5.8	11	49	74	342	163	290	1170	160	21	5.7	8.7
5	4.9	35	50	81	210	126	272	1060	89	19	6.0	8.3
6	4.4	25	49	79	190	137	262	931	70	19	10	7.9
7	4.2	15	51	78	170	206	255	788	81	18	9.2	7.5
8	4.2	11	50	76	160	234	269	701	70	16	6.9	7.5
9	4.2	9.8	44	67	150	307	255	707	66	14	6.1	6.8
10	3.9	8.7	37	73	140	310	290	607	63	14	5.4	7.2
11	3.7	8.7	36	102	140	344	352	540	59	13	7.2	6.8
12	3.7	8.8	33	102	130	348	323	489	56	12	22	6.2
13	3.9	13	30	78	130	343	312	440	54	11	36	5.8
14	4.2	13	32	76	120	337	297	402	50	10	22	5.5
15	4.4	12	37	74	120	382	316	374	47	9.4	17	5.1
16	4.6	10	63	72	130	386	872	355	45	8.8	15	4.9
17	4.4	9.7	61	70	144	386	742	323	51	8.1	13	4.6
18	4.4	9.3	33	70	148	382	718	297	56	7.9	15	4.4
19	4.4	8.9	47	68	146	402	661	272	54	7.7	21	4.4
20	4.2	8.7	50	68	140	440	623	262	48	7.3	20	5.1
21	4.4	9.6	50	66	142	453	607	255	44	7.5	18	6.2
22	4.4	11	48	66	148	507	560	232	40	7.8	18	18
23	4.4	19	48	70	156	461	575	238	36	7.0	16	12
24	4.4	20	51	160	154	440	713	248	33	7.1	14	7.9
25	4.4	17	64	158	149	410	1260	214	30	7.8	13	7.2
26	4.4	15	105	135	140	382	1110	194	27	7.1	13	6.5
27	4.2	35	86	122	133	352	1110	181	24	6.5	14	6.5
28	4.6	44	103	114	134	355	1020	168	43	6.1	12	5.8
29	4.9	55	110	110	---	363	909	152	47	5.8	12	5.5
30	4.2	69	101	120	---	326	985	147	32	6.1	11	5.1
31	4.2	---	92	128	---	308	---	162	---	5.8	12	---
TOTAL	139.9	527.5	1772	2824	4381	10053	16820	15539	1911	361.8	410.2	218.4
MEAN	4.51	17.6	57.2	91.1	156	324	561	501	63.7	11.7	13.2	7.28
MAX	6.2	69	110	160	342	507	1260	1260	168	26	36	18
MIN	3.7	5.1	30	66	118	126	255	147	24	5.8	5.4	4.4
CFSM	.04	.17	.56	.89	1.53	3.18	5.50	4.91	.63	.12	.13	.07
IN.	.05	.19	.65	1.03	1.60	3.67	6.13	5.67	.70	.13	.15	.08

CAL YR 1982 TOTAL 55692.3 MEAN 153 MAX 1450 MIN 3.7 CFSM 1.50 IN 20.31
WTR YR 1983 TOTAL 54957.8 MEAN 151 MAX 1260 MIN 3.7 CFSM 1.48 IN 20.04

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, Hydrologic Unit 02050101, at East Sidney Dam on Ouleout Creek, 0.3 mi upstream from bridge on County Highway 44 at East Sidney, 4.0 mi upstream from mouth, and 4.5 mi east of Unadilla.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--November 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as "East Sidney Reservoir at East Sidney."

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, at datum 0.05 ft lower.

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950; regulation of outflow began in November 1949; first used for flood regulation on Mar. 28, 1950. Useable capacity, 33,550 acre-ft between elevations 1,115.0 ft (sill of conduits) and 1,203.0 ft (crest of spillway). Dead storage 56 acre-ft. Discharge is controlled by the operation of five gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,194.4 ft Apr. 6, 1960, contents, 25,100 acre-ft; minimum, 1,115.0 ft Aug. 31, 1953, Sept. 7-26, Nov. 4, 1964, contents, 56 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,181.60 ft May. 3, contents, 15,560 acre-ft; minimum, 1,139,44 ft Apr. 22, contents 1,561 acre-ft.

Capacity table (elevation, in feet, and useable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,135.0	1,080	1,160.0	5,910
1,140.0	1,630	1,170.0	9,610
1,145.0	2,360	1,180.0	14,610
1,150.0	3,280	1,190.0	21,370

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1149.52	1148.89	1148.47	1140.43	1140.07	1140.13	1140.32	1171.02	1150.63	1150.20	1150.61	1150.18
2	1149.49	1148.88	1145.45	1140.21	1139.88	1140.28	1140.30	1177.14	1150.55	1150.57	1150.78	1150.17
3	1149.46	1148.86	1143.86	1140.35	1144.26	1140.49	1140.51	1181.13	1150.23	1150.84	1150.86	1150.16
4	1149.43	1148.89	1143.27	1140.17	1142.07	1140.59	1141.08	1179.75	1150.17	1150.85	1150.75	1150.15
5	1149.41	1149.75	1142.82	1140.13	1141.34	1140.85	1140.70	1176.14	1150.33	1150.68	1150.61	1150.12
6	1149.38	1150.42	1142.31	1140.68	1140.16	1141.08	1140.23	1171.58	1150.16	1150.49	1150.57	1150.10
7	1149.35	1150.55	1141.73	1140.77	1140.34	1140.88	1140.46	1164.65	1150.70	1150.35	1150.57	1150.06
8	1149.32	1150.55	1141.02	1140.71	1140.05	1140.63	1140.77	1155.85	1150.52	1150.30	1150.55	1150.02
9	1149.30	1150.50	1140.29	1140.43	1140.04	1140.58	1140.14	1150.37	1150.14	1150.25	1150.52	1149.98
10	1149.28	1150.41	1140.05	1140.09	1140.01	1140.53	1140.70	1149.01	1149.93	1150.18	1150.49	1149.94
11	1149.25	1150.29	1140.38	1140.57	1140.68	1140.73	1140.29	1149.28	1150.21	1150.11	1150.49	1149.90
12	1149.21	1150.20	1140.82	1141.26	1141.06	1141.24	1140.18	1149.74	1150.41	1150.14	1150.61	1149.86
13	1149.19	1150.32	1140.97	1140.92	1140.53	1140.88	1140.00	1150.32	1150.49	1150.22	1150.70	1149.81
14	1149.18	1150.59	1140.72	1140.48	1139.98	1140.57	1140.06	1150.62	1150.48	1150.29	1150.55	1149.75
15	1149.17	1150.69	1140.63	1140.27	1140.25	1141.03	1140.25	1150.89	1150.37	1150.36	1150.48	1149.69
16	1149.17	1150.65	1141.33	1140.08	1140.58	1141.24	1147.79	1150.85	1150.27	1150.45	1150.40	1149.62
17	1149.16	1150.37	1142.15	1140.11	1140.79	1141.12	1154.48	1150.49	1150.71	1150.55	1150.39	1149.56
18	1149.15	1150.12	1141.19	1140.35	1140.57	1140.61	1152.12	1149.99	1150.63	1150.59	1150.60	1149.50
19	1149.13	1150.07	1140.23	1140.61	1140.44	1140.37	1144.36	1150.38	1151.01	1150.58	1150.84	1149.44
20	1149.12	1150.12	1140.70	1140.78	1140.04	1141.04	1141.10	1150.67	1150.15	1150.55	1150.64	1149.39
21	1149.11	1150.18	1140.21	1140.72	1139.90	1141.33	1140.68	1150.49	1150.12	1150.59	1150.42	1149.36
22	1149.08	1150.30	1139.62	1140.63	1140.28	1140.79	1139.94	1150.17	1150.49	1150.63	1150.30	1149.53
23	1149.06	1150.64	1139.75	1140.65	1140.83	1140.16	1140.61	1150.60	1150.68	1150.62	1150.29	1149.58
24	1149.04	1150.93	1140.01	1141.83	1140.75	1140.16	1143.06	1150.83	1150.50	1150.66	1150.28	1149.58
25	1149.02	1150.72	1141.05	1140.52	1140.43	1140.08	1159.16	1150.46	1150.38	1150.91	1150.26	1149.56
26	1149.00	1150.45	1142.17	1140.39	1140.41	1140.09	1168.57	1150.23	1150.26	1150.74	1150.23	1149.53
27	1148.98	1150.16	1141.51	1140.34	1140.10	1140.35	1172.85	1150.75	1150.20	1150.50	1150.20	1149.51
28	1148.96	1149.77	1141.03	1140.78	1140.09	1140.90	1171.20	1150.76	1150.43	1150.48	1150.16	1149.49
29	1148.93	1149.66	1140.89	1140.63	---	1140.76	1168.55	1150.44	1150.10	1150.48	1150.14	1149.46
30	1148.90	1149.95	1140.41	1140.53	---	1139.78	1166.24	1150.27	1150.05	1150.52	1150.13	1149.42
31	1148.88	---	1140.52	1140.37	---	1139.89	---	1150.39	---	1150.55	1150.14	---
MEAN	1149.18	1150.13	1141.47	1140.54	1140.57	1140.62	1147.22	1155.98	1150.38	1150.49	1150.47	1149.75
MAX	1149.52	1150.93	1148.47	1141.83	1144.26	1141.33	1172.85	1181.13	1151.01	1150.91	1150.86	1150.18
MIN	1148.88	1148.86	1139.62	1140.08	1139.88	1139.78	1139.94	1149.01	1149.93	1150.11	1150.13	1149.36
†	3,060	3,195	1,696	1,661	1,642	1,650	8,593	3,386	3,294	3,408	3,317	3,163
††	-2.1	+2.3	-24.4	-0.6	-0.3	+0.1	+117	-84.7	-1.6	+1.8	-1.5	-2.6

CAL YR 1982 MEAN 1146.71 MAX 1167.90 MIN 1139.62 †† 0
WTR YR 1983 MEAN 1147.26 MAX 1181.13 MIN 1139.62 †† 0

† Contents, in acre-ft, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi downstream from bridge on County Highway 44, 0.4 mi downstream from East Sidney Dam, at East Sidney, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--103 mi^2.

PERIOD OF RECORD.--August 1940 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,086.23 ft National Geodetic Vertical Datum of 1929. Prior to June 13, 1947, water-stage recorder at site 0.5 mi upstream at datum 27.30 ft higher.

REMARKS.--Records good. Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

AVERAGE DISCHARGE.--43 years, 173 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft^3/s Dec. 30, 1942, gage height, 7.62 ft site and datum then in use, from rating curve extended above 4,000 ft^3/s; minimum, 1.2 ft^3/s Aug. 13, 14, 17, 1949, gage height, 0.32 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 16,700 ft^3/s in July 1935 was determined, by computation of flow over dam and from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,830 ft^3/s Apr. 27, gage height, 4.82 ft; minimum, 8.7 ft^3/s Apr. 24, 25, gage height, 0.89 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	10	383	153	132	97	174	124	189	43	14	11
2	9.7	10	311	126	101	97	183	154	188	31	14	11
3	9.7	10	180	108	958	98	191	614	177	35	23	11
4	9.2	11	112	93	976	99	234	1630	161	61	33	11
5	9.2	18	112	64	578	100	232	1600	161	61	26	11
6	9.2	33	111	67	329	138	183	1700	160	55	14	11
7	9.2	33	109	83	323	179	164	1720	197	42	14	11
8	9.7	32	108	83	291	210	399	1580	198	33	14	11
9	9.7	31	79	83	177	210	250	719	169	31	14	11
10	9.7	31	34	77	143	210	378	373	102	33	14	11
11	9.7	31	23	69	112	211	569	253	71	22	15	11
12	9.7	31	22	103	142	246	405	203	72	17	27	11
13	9.7	31	22	98	156	260	332	182	72	13	45	11
14	9.7	31	35	82	132	227	291	183	71	11	31	11
15	9.7	31	50	80	107	212	242	288	71	11	23	11
16	9.7	51	109	62	108	234	479	508	59	11	18	11
17	10	60	238	45	141	278	779	358	80	11	14	11
18	10	40	209	37	157	298	1500	249	106	15	20	11
19	10	22	151	36	157	298	1240	187	278	17	44	11
20	10	18	137	35	147	345	622	226	139	16	50	11
21	11	18	156	35	125	415	522	243	53	16	34	12
22	11	18	105	34	111	679	463	191	31	16	20	12
23	11	18	81	50	133	384	728	175	53	17	15	12
24	11	79	82	277	158	327	947	218	60	17	15	11
25	11	90	118	261	134	278	9.7	209	46	36	15	11
26	11	89	255	155	111	218	88	138	45	49	15	11
27	11	89	282	120	110	205	1140	189	31	30	15	11
28	11	88	248	120	105	274	1570	192	270	14	13	11
29	11	114	247	120	---	361	1760	192	234	14	12	11
30	11	201	182	120	---	232	1330	190	106	14	12	11
31	10	---	153	133	---	182	---	189	---	14	12	---
TOTAL	312.7	1369	4444	3009	6354	7602	17404.7	14977	3650	806	645	333
MEAN	10.1	45.6	143	97.1	227	245	580	483	122	26.0	20.8	11.1
MAX	11	201	383	277	976	679	1760	1720	278	61	50	12
MIN	9.2	10	22	34	101	97	9.7	124	31	11	12	11

CAL YR 1982 TOTAL 47623.3 MEAN 130 MAX 1020 MIN 5.5
WTR YR 1983 TOTAL 60906.4 MEAN 167 MAX 1760 MIN 9.2

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft downstream from bridge on Bridge Street at Unadilla, 1.0 mi upstream from Carrs Creek, and 1.6 mi downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi^2.

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 2103: 1966(M); Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 997.25 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Slight regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--45 years, 1,575 ft^3/s, 21.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft^3/s Mar. 14, 1977, gage height, 14.64 ft; minimum, 39 ft^3/s Oct. 17, 1964, gage height, 1.38 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936, reached a stage of 16.6 ft, from floodmarks, discharge, 31,300 ft^3/s, from publications of the Corps of Engineers, Baltimore District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Apr. 26	0230	*13,600	*11.23	May 3	0200	13,400	11.15

Minimum discharge, 64 ft^3/s Oct. 27-29, gage height, 1.51 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	108	858	786	846	1030	1950	11800	1640	639	191	196
2	108	103	738	754	800	1120	1830	12600	1470	545	262	183
3	97	77	557	698	3700	1280	1870	13000	1240	516	250	160
4	99	91	467	560	5950	1260	2140	11800	1320	486	222	150
5	97	262	445	470	3600	1240	2000	9520	1550	457	204	145
6	81	496	461	540	2600	1310	1800	7960	1260	428	188	140
7	101	320	440	578	2500	1670	1730	6800	1590	390	188	135
8	97	222	369	573	2200	2190	2260	6030	1420	355	178	125
9	93	195	440	515	1800	2480	2120	5680	1180	334	165	125
10	91	166	290	475	1400	2490	2210	4610	1010	305	160	115
11	81	196	260	600	1300	2720	4060	3860	850	283	170	132
12	81	213	250	812	1300	2890	3450	3380	782	262	521	123
13	85	207	240	600	1400	2670	2930	2950	796	254	694	111
14	87	202	300	450	1300	2590	2600	2820	692	229	446	108
15	93	214	290	420	1200	2650	2490	2710	819	213	310	103
16	99	223	600	410	1230	2690	6430	3170	914	229	246	103
17	106	211	1170	400	1250	2790	7990	2610	1440	204	222	97
18	145	199	720	390	1330	2870	8010	2220	1170	193	274	99
19	101	182	520	390	1350	2990	6790	1880	1660	193	270	95
20	77	163	540	380	1220	3690	5540	1890	1220	188	262	97
21	74	163	560	380	1190	3810	5030	1800	871	188	232	106
22	72	190	520	370	1230	4970	4750	1560	724	185	193	201
23	83	262	490	470	1330	4100	5620	1780	643	204	180	232
24	79	380	526	1100	1340	3390	7820	1690	603	193	178	183
25	95	401	692	1500	1240	2980	11600	1600	532	282	160	153
26	76	368	1180	1200	1110	2600	12900	1370	479	250	158	446
27	66	329	1310	960	920	2420	11900	1580	445	204	155	470
28	64	355	1140	900	1000	2570	11300	1460	913	173	160	262
29	66	531	1230	860	---	2930	10800	1320	1870	170	153	183
30	74	644	1030	860	---	2400	11200	1360	929	175	183	150
31	123	---	820	884	---	2080	---	1500	---	170	196	---
TOTAL	2809	7673	19453	20285	47636	78870	163120	134310	32032	8897	7371	4928
MEAN	90.6	256	628	654	1701	2544	5437	4333	1068	287	238	164
MAX	145	644	1310	1500	5950	4970	12900	13000	1870	639	694	470
MIN	64	77	240	370	800	1030	1730	1320	445	170	153	95
CFSM	.09	.26	.64	.67	1.73	2.59	5.54	4.41	1.09	.29	.24	.17
IN.	.11	.29	.74	.77	1.80	2.99	6.18	5.09	1.21	.34	.28	.19

CAL YR 1982 TOTAL 442732 MEAN 1213 MAX 8360 MIN 64 CFSM 1.24 IN 16.77
WTR YR 1983 TOTAL 527384 MEAN 1445 MAX 13000 MIN 64 CFSM 1.47 IN 19.98

01502000 BUTTERNUT CREEK AT MORRIS, NY

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mi upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 mi^2.

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 921: 1939. WSP 2103: Drainage area. WRD NY 1974: 1973(P).

GAGE.--Water-stage recorder. Datum of gage 1096.21 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years, 100 ft^3/s, 22.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,980 ft^3/s Oct. 17, 1977, gage height, 9.44 ft; minimum daily, 1.3 ft^3/s Sept. 24, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Apr. 16	0830	*2,540	*7.03	May 2	0730	2,230	6.83
Apr. 25	0700	2,110	6.69				

Minimum discharge, 3.0 ft^3/s Oct. 20, gage height, 1.34 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	6.4	24	44	65	90	110	1060	93	22	8.8	8.3
2	6.0	6.8	21	42	70	97	108	1330	67	21	11	7.9
3	3.6	6.8	19	40	609	106	141	565	57	19	8.8	7.0
4	6.0	8.8	19	28	430	100	140	520	100	18	8.3	7.0
5	6.8	30	18	33	210	105	122	376	89	17	8.3	7.0
6	5.1	18	18	35	160	112	116	308	73	17	7.9	6.6
7	4.7	10	18	34	140	211	114	248	78	15	7.4	6.1
8	5.5	7.3	17	34	120	185	143	250	65	15	7.4	5.7
9	5.5	6.8	17	28	110	200	123	315	56	14	6.6	5.7
10	5.1	6.0	14	29	100	169	176	224	51	14	6.6	5.7
11	6.4	6.4	13	60	96	200	217	196	49	13	7.9	7.0
12	4.4	6.8	13	60	94	181	169	174	47	13	32	6.6
13	5.5	11	13	38	92	165	153	158	42	12	26	5.0
14	6.0	11	13	34	90	162	141	141	39	11	14	4.6
15	6.4	8.3	14	32	90	174	178	130	36	11	11	5.3
16	6.8	7.3	39	32	87	167	1560	132	34	11	10	5.0
17	6.8	7.3	46	31	87	162	570	112	34	11	9.2	4.0
18	6.8	6.8	22	31	93	155	496	98	36	10	9.2	5.3
19	5.1	6.4	25	30	92	160	387	88	35	10	8.8	5.3
20	3.2	6.4	26	30	86	191	340	89	30	9.6	8.3	6.6
21	4.7	6.8	26	29	93	202	296	86	28	9.2	7.9	6.1
22	5.1	8.3	24	29	100	248	292	75	26	9.2	7.4	17
23	5.5	16	24	43	111	180	390	89	22	7.4	7.9	9.6
24	5.1	21	27	112	105	150	935	114	21	7.9	7.4	7.4
25	3.2	18	36	105	97	130	1640	78	21	8.3	7.4	7.0
26	4.7	14	71	82	86	120	693	69	20	8.3	7.0	6.6
27	5.1	13	56	72	76	130	582	66	20	7.9	8.3	6.1
28	6.0	12	64	64	84	148	444	60	35	7.9	8.3	6.6
29	6.0	17	65	60	---	163	350	57	38	7.4	7.4	5.7
30	6.0	29	53	62	---	120	593	60	26	7.9	7.9	5.3
31	6.0	---	40	69	---	120	---	76	---	7.9	8.3	---
TOTAL	169.5	339.7	895	1452	3673	4803	11719	7344	1368	372.9	302.7	199.1
MEAN	5.47	11.3	28.9	46.8	131	155	391	237	45.6	12.0	9.76	6.64
MAX	6.8	30	71	112	609	248	1640	1330	100	22	32	17
MIN	3.2	6.0	13	28	65	90	108	57	20	7.4	6.6	4.0
CFSM	.09	.19	.48	.78	2.19	2.60	6.55	3.97	.76	.20	.16	.11
IN.	.11	.21	.56	.90	2.29	2.99	7.30	4.58	.85	.23	.19	.12

CAL YR 1982	TOTAL	27603.7	MEAN	75.6	MAX	669	MIN	3.2	CFSM 1.27	IN	17.20
WTR YR 1983	TOTAL	32637.9	MEAN	89.4	MAX	1640	MIN	3.2	CFSM 1.50	IN	20.34

01502500 UNADILLA RIVER AT ROCKDALE, NY

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi downstream from Kent Brook.

DRAINAGE AREA.--520 mi².

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 992.25 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft upstream at datum 0.73 ft higher.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--49 years (water years 1931-33, 1938-83), 843 ft³/s, 22.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s Dec. 31, 1942, gage height, 12.98 ft; minimum daily, 27 ft³/s Sept. 20-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Apr. 17	0200	7,700	9.22	May 2	0830	*9,040	*9.85
Apr. 25	2000	8,450	9.58				

Minimum discharge, 51 ft³/s Sept 18, 19, gage height, 3.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	59	324	460	543	738	1010	6030	960	189	84	88
2	69	60	267	435	525	808	944	8650	788	165	102	86
3	62	84	225	405	3080	931	1140	6860	582	152	117	82
4	59	99	207	330	4480	951	1520	4930	717	141	117	76
5	56	255	193	320	2860	977	1260	3920	929	134	99	72
6	56	375	191	330	2100	1050	1100	2940	726	126	88	69
7	57	228	184	329	1600	1490	1040	2390	752	121	88	67
8	56	155	174	315	1300	2110	1290	2270	677	117	88	65
9	56	126	167	260	1100	1980	1230	3040	530	113	78	62
10	56	109	148	260	1000	1830	1390	2430	467	106	71	62
11	54	100	130	449	940	1920	2150	2050	430	102	97	64
12	56	96	120	826	860	1990	1750	1760	408	99	639	72
13	60	111	120	527	820	1670	1470	1540	373	97	568	67
14	59	117	120	410	780	1620	1270	1360	340	92	314	62
15	60	115	130	300	740	1690	1340	1230	316	89	182	59
16	62	103	316	250	720	1640	5920	1250	292	87	139	57
17	64	96	590	230	736	1500	6930	1120	269	85	114	57
18	64	91	340	220	811	1420	5280	939	277	80	139	54
19	64	88	310	220	888	1450	3850	823	345	76	114	53
20	64	85	276	210	861	1690	3140	832	298	75	128	54
21	64	92	252	210	866	1780	2820	823	252	76	119	69
22	57	117	233	210	974	2260	2690	734	216	75	102	117
23	60	200	225	450	1130	1890	3150	788	195	78	95	162
24	64	240	247	995	1090	1500	4290	1160	179	84	88	128
25	62	234	351	1310	947	1200	7560	939	163	97	84	95
26	59	218	814	1050	812	1100	7480	726	153	80	82	80
27	56	190	939	820	648	1100	5460	632	154	78	80	72
28	54	162	760	720	700	1180	4240	564	261	76	80	69
29	57	201	894	640	---	1540	3420	530	362	72	80	65
30	54	285	753	600	---	1310	4040	556	253	74	82	62
31	56	---	535	585	---	1080	---	700	---	74	88	---
TOTAL	1851	4491	10535	14676	33911	45395	90174	64516	12664	3110	4346	2247
MEAN	59.7	150	340	473	1211	1464	3006	2081	422	100	140	74.9
MAX	74	375	939	1310	4480	2260	7560	8650	960	189	639	162
MIN	54	59	120	210	525	738	944	530	153	72	71	53
CFSM	.12	.29	.65	.91	2.33	2.82	5.78	4.00	.81	.19	.27	.14
IN.	.13	.32	.75	1.05	2.43	3.25	6.45	4.62	.91	.22	.31	.16

CAL YR 1982 TOTAL 265113 MEAN 726 MAX 5110 MIN 54 CFSM 1.40 IN 18.97
WTR YR 1983 TOTAL 287916 MEAN 789 MAX 8650 MIN 53 CFSM 1.52 IN 20.60

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mi downstream from Little Snake Creek, and 3.5 mi downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi^2 .

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 1672: 1918(M, P). WSP 2103: Drainage area. WDR NY-81-3: 1918 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 841.04 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Minor regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--70 years (water years 1914-83), 3,605 ft^3/s, 21.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,600 ft^3/s Mar. 18, 1936, gage height, 20.14 ft; maximum gage height, 20.83 ft Mar. 22, 1948; minimum discharge, 85 ft^3/s Oct. 14, 1964, gage height, 1.30 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft^3/s and maximum (*);

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 4	0100	a19,000	b11.04	Apr. 25	1200	29,100	13.63
Apr. 16	1000	*29,800	*13.84	May 2	2300	27,200	13.09

a About.
b Backwater from ice.

Minimum discharge, 195 ft^3/s many days; minimum gage height, 1.69 ft Oct. 24-26, 29-31, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	195	1830	2420	2900	2430	4040	23300	3330	2040	423	388
2	237	217	1830	2130	2800	2510	3770	26800	3570	1510	530	388
3	229	249	1680	2020	9800	2680	4080	26700	3050	1220	511	365
4	237	265	1370	1700	18000	2890	4660	24500	2740	1060	491	341
5	225	537	1180	1500	13000	3060	4800	19900	3110	955	472	317
6	213	761	1090	1300	8000	3090	4300	15300	3410	890	447	299
7	206	1040	1070	1440	6000	3390	4060	12300	3670	812	405	286
8	206	928	1040	1440	5400	4340	5730	10900	3480	745	365	269
9	210	675	920	1350	4800	5140	6010	12800	3010	704	350	265
10	217	537	840	1240	4000	5500	6280	10900	2520	644	336	269
11	202	462	780	1310	3300	6150	8620	8530	2340	592	312	265
12	195	428	700	1670	3000	6590	8870	7220	1960	557	336	261
13	199	525	660	2040	2900	6220	7110	6330	1710	537	2430	257
14	213	636	620	1600	2800	5800	5980	5660	1710	504	1930	261
15	213	588	580	1200	2900	5630	8040	5320	1480	485	1250	249
16	210	535	1220	1200	2900	5600	27600	6190	1380	478	837	221
17	221	511	2750	1100	2900	5400	24300	5720	1630	459	644	202
18	225	495	2690	1100	3010	5320	21800	4890	2010	441	557	210
19	229	466	1950	1400	3180	5460	17700	4270	2010	417	524	202
20	253	437	1570	2200	3140	5880	14000	3910	2590	388	592	213
21	261	441	1550	2600	3010	6840	11600	3860	2120	382	511	213
22	241	504	1480	2700	3110	7930	11100	3630	1600	411	478	282
23	217	753	1400	2700	3340	8430	12900	3740	1310	399	447	299
24	202	1020	1320	3200	3520	6850	18500	3970	1160	405	394	382
25	195	1090	1750	4500	3370	5800	28400	3940	1060	429	360	447
26	202	1090	4260	5400	3010	5200	27800	3480	936	429	341	382
27	206	1020	4520	4700	2600	4700	26300	3050	864	485	341	331
28	210	898	4410	4000	2370	4730	21800	3070	1960	435	331	585
29	199	1030	3950	3500	---	5200	18700	2890	3560	388	317	544
30	195	1900	3530	3200	---	5350	19400	2800	3320	360	336	405
31	195	---	2930	3000	---	4540	---	2910	---	350	336	---
TOTAL	6720	20233	57470	70860	129060	158650	388250	278780	68600	19911	17934	9398
MEAN	217	674	1854	2286	4609	5118	12940	8993	2287	642	579	313
MAX	261	1900	4520	5400	18000	8430	28400	26800	3670	2040	2430	585
MIN	195	195	580	1100	2370	2430	3770	2800	864	350	312	202
CFSM	.10	.30	.83	1.02	2.07	2.29	5.80	4.03	1.03	.29	.26	.14
IN.	.11	.34	.96	1.18	2.15	2.64	6.47	4.65	1.14	.33	.30	.16

CAL YR 1982 TOTAL 1076939 MEAN 2951 MAX 17300 MIN 195 CFSM 1.32 IN 17.95
WTR YR 1983 TOTAL 1225866 MEAN 3359 MAX 28400 MIN 195 CFSM 1.51 IN 20.43

01505000 CHENANGO RIVER AT SHERBURNE, NY

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mi west of Sherburne, and 0.5 mi downstream from Handsome Brook.

DRAINAGE AREA.--263 mi².

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 1502: 1955. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft National Geodetic Vertical Datum of 1929. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi downstream, at datum approximately 11.9 ft lower, during period of construction of highway bridge.

REMARKS.--Records fair. Flow from 82 mi² of drainage area formerly may have been diverted into Mohawk River basin through abandoned Chenango Canal; no diversion from this cause known during period of record.

AVERAGE DISCHARGE.--45 years, 405 ft³/s, 20.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s Mar. 6, 1979, gage height, 9.94 ft; maximum gage height, 9.99 ft Dec. 30, 1942 (ice jam); minimum discharge, 12 ft³/s Sept. 25, 1964; minimum gage height, 1.52 ft Sept. 19, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,150 ft³/s Apr. 25 at 0230 hours, gage height, 8.68 ft, no other peak above base of 3,500 ft³/s; minimum, 42 ft³/s Sept. 30, gage height, 1.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	69	178	210	214	307	336	3070	349	95	55	63
2	52	77	165	203	218	328	323	2590	272	86	76	59
3	51	72	162	188	1700	354	441	2510	228	84	63	59
4	50	93	150	168	1740	336	450	2250	247	82	55	59
5	49	287	144	170	1000	349	401	1810	251	78	55	59
6	49	178	141	168	780	367	363	1450	247	78	59	61
7	50	144	136	162	600	563	354	1190	311	76	55	61
8	53	126	131	165	480	563	410	1080	258	74	53	61
9	54	113	126	153	410	568	363	1300	221	72	55	63
10	53	104	113	159	360	521	512	992	195	68	59	70
11	51	100	110	323	330	635	693	843	185	66	53	78
12	51	95	110	295	320	573	563	739	178	64	104	72
13	51	98	110	228	300	512	508	630	168	64	126	68
14	52	95	100	210	290	517	436	540	159	61	84	68
15	53	93	116	180	290	521	578	488	150	59	76	64
16	54	88	221	160	299	464	2230	512	147	59	72	63
17	58	88	231	150	303	423	1820	432	175	58	68	61
18	60	86	190	150	341	401	1850	372	203	53	66	61
19	58	84	170	140	349	432	1530	332	192	55	70	61
20	56	84	141	140	336	464	1380	380	159	53	63	64
21	61	88	139	140	367	478	1250	336	139	53	58	74
22	61	102	133	140	414	611	1210	307	128	52	56	111
23	58	141	131	190	478	460	1480	388	116	52	56	76
24	56	144	136	478	427	400	2230	372	109	53	55	66
25	56	150	195	414	384	350	3690	311	102	59	53	61
26	55	139	393	332	323	320	299	276	100	53	53	56
27	54	133	269	300	290	320	2610	258	95	50	55	52
28	59	121	332	290	290	384	2180	244	113	49	59	48
29	59	144	354	270	---	531	1790	231	141	50	61	46
30	59	203	291	250	---	410	2010	234	109	50	58	45
31	59	---	221	231	---	367	---	287	---	55	58	---
TOTAL	1693	3539	5539	6757	13633	13829	36981	26754	5447	1961	1989	1910
MEAN	54.6	118	179	218	487	446	1233	863	182	63.3	64.2	63.7
MAX	61	287	393	478	1740	635	3690	3070	349	95	126	111
MIN	49	69	100	140	214	307	323	231	95	49	53	45
CFSM	.21	.45	.68	.83	1.85	1.70	4.69	3.28	.69	.24	.24	.24
IN.	.24	.50	.78	.96	1.93	1.96	5.23	3.78	.77	.28	.28	.27

CAL YR 1982 TOTAL 128768 MEAN 353 MAX 2790 MIN 37 CFSM 1.34 IN 18.21
WTR YR 1983 TOTAL 120032 MEAN 329 MAX 3690 MIN 45 CFSM 1.25 IN 16.98

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'18", long 76°10'36", Cortland County, Hydrologic Unit 02050102, on left bank at downstream side of bridge on Wall Street at Homer and 3.4 mi upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 mi^2.

PERIOD OF RECORD.--November 1966 to September 1968, October 1972 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,114.81 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1968, water-stage recorder at bridge on Water Street 500 ft upstream at same datum.

REMARKS.--Records fair. Slight diversion, maximum daily 0.3 ft^3/s from Gate House Pond 13 mi upstream from station into Onondaga Creek basin (St. Lawrence River basin) for manufacturing purposes by Solvay Process Co.

AVERAGE DISCHARGE.--12 years (water years 1968, 1973-83), 131 ft^3/s, 24.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s Oct. 28, 1981, gage height, 8.74 ft; minimum discharge, 9.6 ft^3/s Nov. 22, 1966; minimum gage height, 1.08 ft Oct. 1, 2, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	0030	*809	*a5.21	Apr. 30	1130	733	a4.98

a Affected by backwater from debris.

Minimum discharge, 15 ft^3/s Sept. 15-21; minimum gage height, 1.11 ft Sept. 16, 17, 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	26	102	140	71	104	105	576	117	70	41	22
2	28	30	90	137	72	105	101	579	106	68	52	20
3	24	27	81	127	283	108	105	570	100	68	43	19
4	24	33	79	100	274	108	105	519	97	62	39	19
5	23	86	77	100	190	120	101	439	77	57	37	20
6	21	68	80	100	160	120	96	386	88	52	36	26
7	23	52	75	101	150	124	102	342	114	50	33	22
8	52	43	68	96	140	121	115	344	96	48	31	19
9	39	39	65	86	130	123	105	399	88	44	34	19
10	29	37	54	84	120	120	164	331	82	44	33	18
11	27	34	52	116	110	140	170	297	79	41	33	18
12	28	37	52	112	110	128	152	274	77	40	36	18
13	27	38	50	92	100	120	140	252	74	39	33	17
14	25	37	50	87	100	115	127	229	74	37	31	16
15	27	35	54	86	105	113	241	219	63	36	31	15
16	33	33	160	86	102	108	525	220	48	36	30	15
17	36	31	115	81	105	83	395	198	62	35	28	15
18	36	30	78	77	108	79	355	182	137	33	29	15
19	50	28	78	74	105	82	299	173	162	25	28	15
20	49	27	80	70	105	90	285	192	149	25	26	15
21	36	32	81	66	109	102	272	171	125	28	24	20
22	26	70	75	64	117	124	264	162	105	28	24	29
23	25	87	74	70	130	110	314	171	92	25	23	23
24	23	83	77	95	123	110	504	156	81	29	22	22
25	26	83	130	90	115	100	678	144	71	28	21	20
26	31	69	243	82	106	100	638	147	70	32	21	19
27	23	65	165	78	101	104	648	136	70	28	22	19
28	21	59	285	74	102	114	582	125	85	28	22	18
29	19	107	222	72	---	128	506	104	87	27	21	17
30	19	130	184	73	---	113	626	111	77	33	19	16
31	18	---	150	73	---	109	---	114	---	33	24	---
TOTAL	899	1556	3226	2789	3543	3425	8820	8262	2753	1229	927	566
MEAN	29.0	51.9	104	90.0	127	110	294	267	91.8	39.6	29.9	18.9
MAX	52	130	285	140	283	140	678	579	162	70	52	29
MIN	18	26	50	64	71	79	96	104	48	25	19	15
CFSM	.41	.73	1.46	1.26	1.78	1.54	4.11	3.73	1.28	.55	.42	.26
IN.	.47	.81	1.68	1.45	1.84	1.78	4.59	4.30	1.43	.64	.48	.29

CAL YR 1982 TOTAL 36583 MEAN 100 MAX 657 MIN 15 CFSM 1.40 IN 19.03
WTR YR 1983 TOTAL 37995 MEAN 104 MAX 678 MIN 15 CFSM 1.46 IN 19.77

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, Hydrologic Unit 02050102, on right bank at east end of Elm Street at Cortland, 0.4 mi downstream from confluence of East and West Branches. Water-quality sampling site at Cortland Sewage Treatment Plant, 0.4 mi downstream from discharge station.

DRAINAGE AREA.--292 mi², including 14.0 mi², the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1939, water-stage recorder at datum 4.00 ft higher; Oct. 1, 1939 to Sept. 30, 1963, water-stage recorder at datum 3.00 ft higher.

REMARKS.--Records good except those for winter periods, which are fair. Diurnal fluctuation at low and medium flow caused by powerplants in mills on West Branch. Slight diversion from East Branch for operation of Erie (Barge) Canal. Slight diversion, maximum daily, 0.3 ft³/s from Gate House Pond on West Branch 17 mi upstream from station into Onondaga Creek basin (St. Lawrence River basin) for manufacturing purposes by Solvay Process Co.

AVERAGE DISCHARGE.--45 years (water years 1939-83), 497 ft³/s, 23.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s Mar. 5, 1964, gage height, 12.49 ft; maximum gage height, 13.82 ft (present datum) Apr. 5, 1950; minimum discharge, 9.8 ft³/s Sept. 20, 1939, Sept. 29, 1959; minimum daily, 17 ft³/s Sept. 26, 27, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,170 ft³/s Apr. 25 at 1400 hours, gage height, 8.22 ft, no peak above base of 4,400 ft³/s; minimum, 46 ft³/s Sept. 20, 21, gage height, 2.61 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	83	461	520	275	362	440	2330	412	171	83	66
2	75	111	386	480	280	371	416	2330	359	154	114	66
3	73	99	350	436	1440	395	472	2350	331	147	105	62
4	73	123	333	310	1990	390	491	2070	308	141	88	60
5	73	446	346	290	1100	455	437	1650	291	132	83	58
6	71	329	321	340	820	495	406	1350	287	123	80	69
7	69	221	300	332	700	556	414	1130	408	114	83	62
8	85	174	267	315	580	599	511	1120	350	114	75	58
9	85	154	255	270	500	574	458	1510	296	111	88	58
10	78	141	210	260	450	541	606	1190	267	108	90	56
11	75	138	200	443	430	654	893	998	252	102	80	56
12	75	141	200	469	410	619	727	879	248	96	90	54
13	80	141	190	330	390	532	650	779	225	93	96	52
14	78	141	190	290	370	518	568	699	214	90	88	50
15	80	132	200	270	350	501	879	658	200	90	80	50
16	88	126	470	260	357	453	2390	684	185	85	75	48
17	99	120	605	250	366	400	2180	606	244	83	71	48
18	108	117	360	240	392	372	1890	534	381	80	73	48
19	111	114	350	240	378	391	1480	498	377	75	71	48
20	108	111	343	230	376	446	1260	562	308	73	69	48
21	93	147	336	230	406	475	1160	507	267	78	64	52
22	85	271	312	220	449	695	1110	466	229	75	64	80
23	83	372	299	250	530	545	1460	504	210	73	64	75
24	80	359	307	425	491	490	2320	455	189	83	62	64
25	78	350	482	426	439	440	3700	413	167	75	60	58
26	83	304	1060	370	370	420	3320	413	167	75	62	56
27	78	275	801	320	330	430	3130	399	161	73	60	54
28	76	248	1090	300	350	467	2640	368	203	71	60	54
29	75	368	951	290	---	611	2120	330	244	69	58	52
30	73	559	734	290	---	509	2320	335	196	75	58	52
31	73	---	560	288	---	466	---	369	---	75	62	---
TOTAL	2544	6415	13269	9984	15319	15172	40848	28486	7976	3004	2356	1714
MEAN	82.1	214	428	322	547	489	1362	919	266	96.9	76.0	57.1
MAX	111	559	1090	520	1990	695	3700	2350	412	171	114	80
MIN	69	83	190	220	275	362	406	330	161	69	58	48
CFSM	.28	.73	1.47	1.10	1.87	1.68	4.66	3.15	.91	.33	.26	.20
IN.	.32	.82	1.69	1.27	1.95	1.93	5.20	3.63	1.02	.38	.30	.22

CAL YR 1982 TOTAL 151831 MEAN 416 MAX 3780 MIN 54 CFSM 1.43 IN 19.34
WTR YR 1983 TOTAL 147087 MEAN 403 MAX 3700 MIN 48 CFSM 1.38 IN 18.74

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.
CHEMICAL DATA: 1957 (e), 1970, 1972 (a).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1957, once-daily measurements, unpublished.
pH: October 1956 to September 1957, once-daily measurements, unpublished.
WATER TEMPERATURES: October 1956 to current year.

REMARKS.--Daily water-temperature measurements made at 0900 hours. Measurements are reported to half degrees Celsius.

COOPERATION.--Water-temperature records furnished by the city of Cortland.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 23.5°C July 22, 1957; minimum daily (except water year 1960), freezing point on many days during winter periods in water years 1957, 1959, 1962, 1967-83.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 19.0°C June 19, 21; minimum daily, freezing point on several days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

(ONCE DAILY AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	4.0	3.0	4.5	5.0	4.5	9.5	11.0	15.5	16.5	16.0
2	10.0	10.5	5.0	5.0	5.0	5.0	6.5	12.5	12.5	17.0	16.0	13.5
3	8.5	12.0	6.0	4.0	3.0	5.5	6.0	10.5	12.0	17.0	16.0	15.0
4	10.0	8.5	7.5	4.0	.5	5.5	8.0	10.5	13.5	17.5	16.0	15.0
5	9.5	7.0	7.0	3.0	.0	6.5	7.5	12.0	13.5	18.0	16.0	15.0
6	10.0	7.0	8.0	3.0	.0	6.0	7.5	9.0	13.5	16.0	12.0	16.5
7	10.5	5.0	5.0	4.0	1.5	6.5	8.5	11.5	13.5	15.0	16.5	17.0
8	12.0	7.0	4.5	4.5	1.0	5.0	8.5	12.0	14.0	14.0	16.0	17.0
9	10.0	6.5	2.5	5.0	.5	5.0	9.5	8.0	13.5	14.5	16.5	16.0
10	8.5	5.0	1.5	3.5	.5	6.0	8.0	8.0	13.0	14.0	15.5	16.5
11	8.0	4.5	3.0	5.0	.0	5.0	8.5	9.5	13.5	13.0	15.5	17.0
12	9.0	7.0	1.5	3.5	.5	3.5	5.5	9.5	14.0	13.5	16.0	15.0
13	9.0	5.0	1.0	1.0	1.0	6.0	6.0	10.5	15.0	15.0	14.0	15.0
14	9.0	5.5	1.0	3.0	1.5	5.0	5.5	12.5	15.0	16.5	14.0	14.5
15	8.5	5.0	2.5	3.5	3.5	5.0	8.0	13.5	14.5	15.5	14.5	11.0
16	8.5	3.0	3.0	.0	4.0	5.5	6.5	11.5	15.0	17.0	15.0	12.0
17	6.0	4.5	.0	2.0	4.0	6.0	5.0	9.5	15.5	16.5	15.0	13.5
18	6.0	5.0	1.0	2.0	4.0	5.5	6.0	8.5	17.0	16.5	17.0	---
19	6.0	5.0	1.0	1.5	4.0	8.0	5.0	11.0	19.0	17.0	16.5	---
20	7.0	5.0	1.5	.5	4.0	7.0	2.5	11.0	18.5	14.5	17.0	15.0
21	8.0	5.0	1.0	2.0	6.0	5.5	2.5	13.5	19.0	15.0	17.0	16.5
22	7.0	5.0	.5	3.0	5.0	4.5	5.0	12.5	18.0	14.0	15.5	13.5
23	6.0	6.0	2.0	3.5	5.0	4.0	5.5	13.0	16.0	14.5	15.0	15.0
24	6.0	5.0	2.5	3.5	5.0	3.5	5.0	13.0	16.0	15.5	14.0	12.5
25	4.5	2.0	3.0	3.0	3.5	3.0	3.5	11.5	16.5	14.5	15.0	11.0
26	7.0	3.0	3.5	2.0	2.5	4.0	4.5	10.5	16.0	14.5	15.5	11.5
27	7.0	2.0	1.0	2.0	4.5	4.0	6.5	11.5	17.0	15.0	17.0	12.0
28	6.0	2.0	2.0	2.5	4.0	4.0	8.0	11.0	17.0	15.0	16.0	12.0
29	6.5	3.0	1.5	3.5	---	3.5	10.0	11.0	15.0	16.0	16.0	11.0
30	9.0	3.0	.5	4.0	---	3.5	10.0	13.0	16.0	16.0	15.0	12.0
31	9.0	---	.0	5.0	---	4.0	---	13.0	---	16.0	16.5	---
MEAN	8.5	5.5	2.5	3.0	3.0	5.0	6.5	11.0	15.0	15.5	15.5	13.5
MAX	16.0	12.0	8.0	5.0	6.0	8.0	10.0	13.5	19.0	18.0	17.0	17.0
MIN	4.5	2.0	.0	.0	.0	3.0	2.5	8.0	11.0	13.0	12.0	11.0

CAL YR 1982	MEAN	8.5	MAX	19.0	MIN	.0
WTR YR 1983	MEAN	8.5	MAX	19.0	MIN	.0

01510000 OTSELIC RIVER AT CINCINNATUS, NY

LOCATION.--Lat 42°32'28", long 75°54'00", Cortland County, Hydrologic Unit 02050102, on right bank 150 ft upstream from Mead Brook, and 300 ft downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,031.67 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years (water years 1939-64, 1970-83), 269 ft³/s, 24.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,390 ft³/s Dec. 30, 1942; maximum gage height, 10.68 ft Apr. 4, 1950; minimum discharge, 3.8 ft³/s Sept. 25, 1939; minimum gage height, 0.24 ft Sept. 2, 1979 (result of channel clearance).

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,710 ft³/s Apr. 25, gage height, 6.51 ft, no other peak above base of 2,500 ft³/s; minimum, 8.8 ft³/s Sept. 19, 20, gage height, 0.43 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	22	213	250	160	216	243	1460	213	63	23	16
2	20	31	180	232	170	227	234	1190	165	52	40	15
3	18	29	160	209	1600	246	280	1060	142	40	26	14
4	17	43	153	150	1200	243	280	909	150	34	18	14
5	17	225	148	150	600	291	253	665	144	31	17	13
6	17	135	144	160	470	304	239	536	133	29	19	16
7	17	93	133	159	400	409	248	443	148	26	15	16
8	17	72	120	144	350	409	304	443	129	24	14	13
9	17	56	113	120	320	385	265	544	111	22	12	13
10	17	47	80	120	290	365	409	408	103	22	14	12
11	17	42	76	270	270	452	479	355	99	20	17	12
12	17	50	74	239	260	385	388	318	90	20	120	12
13	17	55	72	160	250	339	348	286	83	19	108	12
14	17	54	82	150	240	325	312	261	74	18	67	10
15	18	48	89	140	230	306	532	242	67	16	48	10
16	20	41	314	140	229	283	1530	255	62	16	34	9.6
17	24	37	291	130	234	263	1030	223	65	15	28	9.6
18	27	35	170	120	239	253	891	197	83	14	31	9.6
19	25	34	170	120	232	275	679	182	96	13	30	9.2
20	24	32	176	120	225	312	584	211	86	13	25	9.2
21	28	46	172	110	236	328	532	191	68	14	20	14
22	26	107	155	110	260	394	565	176	55	15	19	49
23	24	178	142	140	299	260	742	233	48	13	20	31
24	22	165	155	330	273	230	1420	213	43	19	19	22
25	21	155	251	280	251	200	2150	178	40	27	18	18
26	20	132	611	230	220	190	1300	165	37	16	18	16
27	19	121	373	190	200	190	1090	156	41	13	19	15
28	19	105	550	180	210	278	864	142	108	11	16	14
29	19	186	438	170	---	331	661	137	108	10	15	13
30	18	283	382	160	---	268	1070	146	79	15	14	12
31	17	---	276	160	---	253	---	173	---	15	14	---
TOTAL	617	2659	6463	5343	9918	9210	19922	12098	2870	675	898	449.2
MEAN	19.9	88.6	208	172	354	297	664	390	95.7	21.8	29.0	15.0
MAX	28	283	611	330	1600	452	2150	1460	213	63	120	49
MIN	17	22	72	110	160	190	234	137	37	10	12	9.2
CFSM	.14	.60	1.42	1.17	2.41	2.02	4.52	2.65	.65	.15	.20	.10
IN.	.16	.67	1.64	1.35	2.51	2.33	5.04	3.06	.73	.17	.23	.11

CAL YR 1982 TOTAL 78213.0 MEAN 214 MAX 2020 MIN 14 CFSM 1.46 IN 19.79
WTR YR 1983 TOTAL 71122.2 MEAN 195 MAX 2150 MIN 9.2 CFSM 1.33 IN 18.00

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, Hydrologic Unit 02050102, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mi upstream from spillway, 0.9 mi upstream from mouth, and 1.0 mi north of Whitney Point.

DRAINAGE AREA.--257 mi^2.

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1970, published as "Whitney Point Reservoir at Whitney Point."

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity, 86,440 acre-ft between elevations 950.0 ft (sill of gates) and 1,010.0 ft (crest of spillway). Dead storage, 28 acre-ft. Figures given herein represent total contents. Discharge is controlled by operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,005.0 ft Mar. 23, 1948, contents, 71,440 acre-ft; minimum, 950.4 ft Sept. 2-4, 1953, contents, 36 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 983.47 ft Apr. 27, contents, 27,680 acre-ft; minimum, 965.69 ft Feb. 28, contents, 4,919 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

960.0	1,250	980.0	22,240
965.0	4,260	985.0	30,200
970.0	9,270	990.0	38,980
975.0	15,290	1,000.0	59,220

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	973.16	972.79	972.69	966.12	966.13	966.03	966.17	979.39	973.13	973.08	973.33	973.18
2	973.11	972.80	971.57	966.06	966.09	966.14	966.21	981.43	973.10	973.09	973.40	973.18
3	972.99	972.80	970.04	965.98	966.71	966.26	966.32	981.22	973.02	973.15	973.39	973.18
4	972.89	972.81	968.51	966.01	970.61	966.28	966.64	979.50	973.06	973.19	973.31	973.16
5	972.88	973.16	967.03	965.94	970.42	966.30	966.68	977.43	973.05	973.22	973.22	973.14
6	972.88	973.37	965.96	966.14	968.06	966.48	966.73	974.99	973.00	973.26	973.13	973.13
7	972.89	973.07	966.22	966.27	966.68	966.70	966.88	973.80	973.09	973.28	973.07	973.11
8	972.90	972.96	966.32	966.34	966.29	966.90	967.14	972.96	973.13	973.29	973.05	973.09
9	972.91	973.01	966.26	966.37	966.42	966.50	967.31	973.17	973.09	973.30	973.04	973.06
10	972.93	973.10	966.10	966.34	966.32	966.38	967.51	972.98	973.06	973.29	973.03	973.04
11	972.95	973.16	966.08	966.33	966.24	966.30	968.47	972.97	973.05	973.21	973.02	973.01
12	972.96	973.21	966.13	966.64	966.30	966.14	968.55	972.98	973.00	973.15	973.06	972.99
13	972.98	973.22	966.16	966.57	966.36	965.78	968.69	972.97	972.95	973.12	972.91	972.98
14	972.99	973.17	966.14	966.33	966.34	965.91	968.85	973.01	972.98	973.09	972.91	972.97
15	973.01	973.19	966.15	966.28	966.39	965.96	969.16	973.02	973.06	973.08	972.96	972.96
16	973.03	973.19	966.28	966.33	966.40	965.92	972.92	973.06	973.13	973.09	973.00	972.96
17	973.06	973.19	966.77	966.33	966.38	965.95	976.92	973.07	973.20	973.08	973.03	972.95
18	973.09	973.19	966.54	966.29	966.41	966.02	976.68	972.97	973.28	973.08	973.06	972.96
19	973.13	973.19	965.99	966.18	966.42	966.18	974.92	972.96	973.37	973.06	973.10	972.96
20	973.16	973.17	966.12	966.13	966.40	966.48	972.65	973.13	973.39	973.05	973.15	972.98
21	973.21	973.19	966.37	966.11	966.40	966.58	970.77	973.08	973.37	973.06	973.17	972.99
22	973.26	973.27	966.36	966.08	966.46	966.58	970.21	972.89	973.31	973.12	973.18	973.07
23	973.29	973.30	966.25	966.08	966.58	966.30	971.11	973.01	973.25	973.09	973.19	973.11
24	973.29	973.35	966.12	966.27	966.48	966.08	972.18	973.09	973.17	973.11	973.20	973.12
25	973.29	973.25	966.12	966.44	966.23	965.98	977.30	973.02	973.12	973.14	973.20	973.12
26	973.27	973.10	966.85	966.39	966.13	966.02	981.84	973.06	973.06	973.16	973.20	973.11
27	973.22	973.08	967.21	966.23	965.89	966.15	983.16	973.09	973.04	973.17	973.20	973.09
28	973.09	973.03	966.86	966.14	965.74	966.35	982.14	973.09	973.17	973.19	973.20	973.04
29	972.93	973.00	966.74	966.15	---	966.58	980.24	973.07	973.30	973.20	973.19	973.00
30	972.85	973.16	966.18	966.12	---	966.46	978.06	973.05	973.24	973.23	973.19	972.96
31	972.80	---	966.20	966.14	---	966.25	---	973.06	---	973.26	973.19	---
MEAN	973.05	973.12	966.91	966.23	966.69	966.26	971.75	974.21	973.14	973.16	973.14	973.05
MAX	973.29	973.37	972.69	966.64	970.61	966.90	983.16	981.43	973.39	973.30	973.40	973.18
MIN	972.80	972.79	965.96	965.94	965.74	965.78	966.17	972.89	972.95	973.05	972.91	972.95
†	12,430	12,750	5,382	5,343	5,091	5,402	19,480	12,800	12,880	13,050	12,930	12,610
††	-7.6	+5.4	-120	-0.6	-4.5	+5.1	+237	-109	+1.3	+2.8	-2.0	-5.4

CAL YR 1982 MEAN 970.47 MAX 974.29 MIN 965.76 †† +0.2
WTR YR 1983 MEAN 970.91 MAX 983.16 MIN 965.74 †† -0.4

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 mi².

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.628 ft National Geodetic Vertical Datum of 1929. Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, waterstage recorder at site 300 ft upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000). Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--70 years (water years 1914-83), 2,418 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,000 ft³/s July 8, 1935, gage height, 20.3 ft, from floodmarks, from rating curve extended above 32,000 ft³/s on basis of slope-area measurement of peak flow; minimum, 84 ft³/s Sept. 19, 25, 1939, gage height, 2.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s Apr. 16, gage height, 9.20 ft, no peak above base of 18,000 ft³/s; minimum, 140 ft³/s Sept. 20, 21, gage height, 2.51 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	177	2340	2100	1400	1680	2090	14800	2370	750	271	234
2	278	183	2300	1900	1400	1880	1920	14500	2100	574	397	216
3	240	210	2210	1710	7200	2110	2100	14200	1700	518	456	216
4	210	234	2030	1400	13400	2160	2610	12500	1730	482	430	210
5	188	822	1900	1200	9410	2360	2410	10500	1880	465	397	199
6	194	1600	1370	1100	6400	2560	2100	8370	1600	447	380	199
7	194	1130	912	1190	4600	2860	1980	6080	1560	422	327	199
8	199	765	965	1150	3600	3450	2710	5260	1630	405	285	194
9	216	607	931	1000	2900	3600	2670	6760	1390	388	258	188
10	216	510	822	1020	2600	3370	3300	5660	1240	413	265	188
11	205	485	720	1390	2400	4180	5430	4400	1200	397	298	188
12	216	508	700	2170	2200	4090	4370	3840	1150	388	631	188
13	222	589	700	1710	2000	3260	3500	3370	1060	349	876	188
14	222	571	680	1300	1900	2900	2990	2960	909	327	546	177
15	228	511	700	1200	1800	2810	3990	2730	854	305	397	172
16	234	481	1250	1100	1830	2600	15700	2860	781	312	342	166
17	252	459	2540	1000	1880	2290	13500	2680	760	291	312	161
18	265	444	1800	940	2040	2120	12400	2350	920	291	320	156
19	278	433	1300	900	2110	2330	10000	1980	1030	285	364	156
20	265	423	1160	860	2090	2630	8580	2010	999	271	305	145
21	271	454	1150	820	2190	2980	7320	2230	876	246	265	166
22	271	797	1170	800	2430	4240	6610	1980	801	285	252	265
23	291	1540	1120	1100	2830	3490	7590	2200	720	285	246	349
24	305	1580	1120	1900	2830	2850	10400	2790	660	265	246	364
25	298	1420	1420	2800	2520	2400	14900	2340	593	305	234	320
26	291	1230	3680	2400	2110	2100	13700	1910	565	265	222	291
27	285	1060	3850	2000	1800	2000	12200	1810	546	258	216	278
28	278	964	4310	1800	1700	2180	11100	1670	750	246	228	258
29	194	1130	4360	1700	---	2900	10300	1610	1290	222	222	228
30	172	2130	3310	1600	---	2750	10700	1600	965	228	228	210
31	172	---	2400	1500	---	2320	---	1780	---	252	234	---
TOTAL	7455	23447	55220	44760	91570	85450	209170	149730	34629	10937	10450	6469
MEAN	240	782	1781	1444	3270	2756	6972	4830	1154	353	337	216
MAX	305	2130	4360	2800	13400	4240	15700	14800	2370	750	876	364
MIN	172	177	680	800	1400	1680	1920	1600	546	222	216	145

CAL YR 1982 TOTAL 738405 MEAN 2023 MAX 13200 MIN 172
WTR YR 1983 TOTAL 729287 MEAN 1998 MAX 15700 MIN 145

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, NY

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, Hydrologic Unit 02050103, at intake of the New York State Electric and Gas Corp., Goudey Station, at Johnson City, 100 ft upstream from Little Choconut Creek, 0.5 mi downstream from C.F.J. Memorial Bridge, 3.5 mi downstream from Chenango River and 4.8 mi upstream from discontinued discharge station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi².

PERIOD OF RECORD.--Water years 1956 to current year. Prior to October 1960, published as 01513500, "at Johnson City", and prior to October 1967, published as 01513500, "at Vestal"; however, all water-temperature records were collected at present site.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1955 to current year.

REMARKS.--Daily water-temperature measurements made at 0800 hours. Measurements are reported to whole degrees Celsius. During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures that are slightly above actual river temperatures.

COOPERATION.--Water-temperature records furnished by the New York State Electric and Gas Corp.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 4, 1979, July 21, 1980; minimum daily, freezing point on many days during winter periods, except 1967, 1976, 1978-80 and 1982-3.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 28.0°C July 5; minimum daily, 1.0°C on many days during February.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 to SEPTEMBER 1983

(ONCE DAILY AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	12.0	7.0	2.0	2.0	4.0	4.0	12.0	16.0	22.0	26.0	23.0
2	17.0	14.0	10.0	2.0	2.0	6.0	6.0	12.0	15.0	23.0	25.0	23.0
3	17.0	15.0	11.0	3.0	2.0	6.0	7.0	13.0	16.0	26.0	24.0	23.0
4	18.0	16.0	11.0	2.0	1.0	6.0	7.0	14.0	18.0	27.0	25.0	23.0
5	17.0	13.0	12.0	2.0	1.0	7.0	7.0	12.0	17.0	28.0	24.0	23.0
6	18.0	8.0	14.0	2.0	1.0	7.0	7.0	11.0	18.0	24.0	26.0	24.0
7	18.0	8.0	13.0	2.0	1.0	7.0	7.0	12.0	18.0	22.0	25.0	25.0
8	18.0	8.0	10.0	2.0	1.0	7.0	9.0	13.0	18.0	23.0	26.0	23.0
9	18.0	5.0	10.0	2.0	1.0	6.0	8.0	11.0	18.0	24.0	26.0	22.0
10	17.0	7.0	9.0	2.0	1.0	6.0	9.0	10.0	19.0	22.0	24.0	23.0
11	16.0	7.0	4.0	3.0	2.0	4.0	8.0	8.0	19.0	22.0	24.0	24.0
12	14.0	7.0	3.0	3.0	1.0	4.0	8.0	10.0	21.0	23.0	23.0	24.0
13	14.0	9.0	4.0	2.0	1.0	3.0	7.0	11.0	23.0	25.0	20.0	22.0
14	13.0	7.0	4.0	2.0	1.0	4.0	8.0	13.0	23.0	24.0	21.0	19.0
15	13.0	6.0	4.0	2.0	1.0	5.0	9.0	15.0	25.0	25.0	22.0	18.0
16	12.0	4.0	4.0	2.0	1.0	5.0	7.0	14.0	26.0	27.0	23.0	18.0
17	10.0	4.0	4.0	2.0	3.0	6.0	5.0	11.0	24.0	26.0	24.0	17.0
18	9.0	4.0	2.0	2.0	3.0	6.0	7.0	11.0	24.0	27.0	24.0	18.0
19	9.0	5.0	3.0	2.0	2.0	7.0	6.0	12.0	24.0	26.0	25.0	19.0
20	10.0	6.0	3.0	2.0	2.0	8.0	4.0	13.0	25.0	26.0	26.0	21.0
21	12.0	7.0	3.0	2.0	3.0	6.0	3.0	14.0	23.0	26.0	24.0	22.0
22	11.0	9.0	3.0	2.0	3.0	6.0	4.0	15.0	23.0	24.0	23.0	19.0
23	9.0	9.0	3.0	2.0	3.0	3.0	7.0	16.0	24.0	23.0	23.0	16.0
24	8.0	10.0	5.0	2.0	4.0	2.0	8.0	16.0	26.0	23.0	23.0	15.0
25	8.0	7.0	5.0	2.0	3.0	2.0	6.0	15.0	25.0	24.0	23.0	15.0
26	7.0	6.0	6.0	2.0	3.0	2.0	5.0	16.0	23.0	24.0	24.0	16.0
27	8.0	12.0	5.0	2.0	2.0	4.0	7.0	15.0	23.0	24.0	25.0	16.0
28	9.0	9.0	5.0	2.0	3.0	4.0	8.0	14.0	25.0	25.0	26.0	17.0
29	9.0	9.0	5.0	2.0	---	4.0	10.0	16.0	21.0	26.0	26.0	17.0
30	11.0	12.0	6.0	2.0	---	3.0	11.0	14.0	22.0	26.0	26.0	17.0
31	12.0	---	4.0	2.0	---	4.0	---	17.0	---	25.0	25.0	---
MEAN	13.0	8.5	6.0	2.0	2.0	5.0	7.0	13.0	21.5	24.5	24.0	20.0
MAX	18.0	16.0	14.0	3.0	3.0	8.0	11.0	17.0	26.0	28.0	26.0	20.5
MIN	7.0	4.0	2.0	2.0	1.0	2.0	3.0	8.0	15.0	22.0	20.0	15.0

CAL YR 1982	MEAN	11.5	MAX	28.0	MIN	1.0
WTR YR 1983	MEAN	12.5	MAX	28.0	MIN	1.0

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi upstream from Cayuta Creek, 0.4 mi upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mi downstream from New York-Pennsylvania State line, and 2 mi southeast of Waverly.

DRAINAGE AREA.--4,773 mi^2.

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to November 1939, at datum 1.0 ft higher.

REMARKS.--Records good. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--46 years (water years 1938-83), 7,578 ft^3/s, 21.56 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft^3/s June 23, 1972, gage height, 21.24 ft; minimum daily, 237 ft^3/s Sept. 22, 23, 1964; minimum gage height, 0.52 ft Sept. 24, 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 21.4 ft, from flood profile (discharge, 128,000 ft^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Apr. 16	1900	*67,300	*14.72	May 2	1200	55,200	12.97
Apr. 25	1400	60,800	13.83				

Minimum discharge, 452 ft^3/s Sept. 18, gage height, 0.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	519	5400	6580	4700	5430	8190	51400	6480	4760	670	650
2	723	554	5080	5660	4640	5560	7510	53900	7270	3250	734	640
3	660	528	4950	5080	21100	5960	7620	51700	6580	2450	873	650
4	620	620	4520	4400	41900	6350	8820	47100	5790	2020	975	630
5	591	1350	3980	3400	34100	6890	9240	40000	5860	1780	962	610
6	554	1950	3620	3380	21400	7370	8610	31800	6090	1610	911	581
7	528	2540	2930	3120	15700	7650	7920	24400	6580	1490	860	554
8	528	2330	2410	3220	12000	8570	10100	20500	6350	1390	791	545
9	519	1870	2300	3050	10000	10200	11800	24700	5990	1300	723	528
10	510	1440	2100	2880	8000	10800	12900	22800	5110	1240	670	519
11	510	1210	1900	2930	6600	13700	18900	18000	4670	1170	640	519
12	510	1110	1700	3870	5800	14700	19600	15000	4190	1120	723	519
13	510	1100	1500	4640	5800	13300	15800	13200	3700	1050	975	519
14	528	1230	1400	4280	5800	12000	13100	11600	3350	988	3170	510
15	528	1300	1400	3590	6000	11100	15300	10800	3120	936	2520	510
16	537	1230	1870	2700	6200	10600	57900	11800	2810	898	1780	501
17	545	1120	4250	2200	6220	10000	56400	11600	2760	873	1330	484
18	554	1070	6060	2000	6480	9420	45400	9970	3350	825	1120	460
19	563	1010	4890	1800	6820	9970	37900	8680	4070	813	1040	460
20	581	988	3900	1700	7090	11000	31000	7920	4040	779	923	510
21	591	988	3300	1700	7200	12000	25900	7720	4310	745	923	563
22	620	1120	3200	2200	7690	16000	24200	7550	3450	757	860	680
23	610	2140	3170	2600	8060	15700	28100	7960	2790	768	802	712
24	600	3200	3080	3400	8500	13700	35400	9100	2370	848	768	701
25	601	3250	3620	6200	8260	11400	58600	8820	2100	836	712	757
26	610	3000	9100	7000	7410	9900	55000	7790	1890	791	670	791
27	601	2760	12300	6800	6290	8920	49200	6720	1750	768	640	712
28	600	2450	11400	6000	5760	8710	42800	6060	2910	768	620	690
29	600	2830	11800	5800	---	9750	36100	5860	6920	768	630	712
30	581	4220	9970	5000	---	10300	39400	5560	6120	723	601	848
31	510	---	8060	4700	---	9490	---	5630	---	690	620	---
TOTAL	17925	51027	145160	121880	295520	316440	798710	565640	132770	39204	30236	18065
MEAN	578	1701	4683	3932	10550	10210	26620	18250	4426	1265	975	602
MAX	802	4220	12300	7000	41900	16000	58600	53900	7270	4760	3170	848
MIN	510	519	1400	1700	4640	5430	7510	5560	1750	690	601	460
CFSM	.12	.36	.98	.82	2.21	2.14	5.58	3.82	.93	.27	.20	.13
IN.	.14	.40	1.13	.95	2.30	2.47	6.23	4.41	1.03	.31	.24	.14

CAL YR 1982 TOTAL 2280530 MEAN 6248 MAX 37500 MIN 501 CFSM 1.31 IN 17.77
WTR YR 1983 TOTAL 2532577 MEAN 6939 MAX 58600 MIN 460 CFSM 1.45 IN 19.74

01520500 TIOGA RIVER AT LINDLEY, NY

LOCATION.--Lat 42°01'43", long 77°07'57", Steuben County, Hydrologic Unit 02050104, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi upstream from Canisteo River.

DRAINAGE AREA.--771 mi^2.

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WSP 871: 1938. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Since March 1979, floodflows regulated by detention in upstream reservoirs.

AVERAGE DISCHARGE.--53 years, 800 ft^3/s, 14.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft^3/s June 23, 1972, gage height, 26.27 ft, from floodmark in gage house, from rating curve extended above 31,000 ft^3/s on basis of velocity-area and slope-area studies at gage height 19.2 ft and conveyance study and slope-area measurements at gage heights 22.87 ft and 26.27 ft; minimum, 6.1 ft^3/s Sept. 1, 1939; minimum gage height, 2.68 ft Aug. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,810 ft^3/s June 28 at 2130 hours, gage height, 10.90 ft, no peak above base of 10,200 ft^3/s; minimum, 50 ft^3/s Sept. 29, gage height, 2.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	76	368	418	182	397	1150	3310	595	910	451	78
2	96	90	146	398	320	439	1020	4790	269	615	354	76
3	94	86	222	316	3210	445	1860	4660	266	440	156	76
4	86	154	243	243	3030	441	1910	2850	327	500	111	78
5	84	535	180	213	2650	429	1440	2020	341	753	111	76
6	82	280	194	195	1550	420	1310	1580	368	487	85	76
7	84	123	243	235	960	473	1250	1430	383	299	82	76
8	82	121	274	226	680	518	1530	1350	384	233	81	74
9	82	122	212	195	540	523	1710	1850	375	164	81	70
10	82	131	164	168	450	832	2810	1680	337	166	80	68
11	84	125	125	247	400	2080	2850	1270	323	159	82	68
12	82	114	113	280	350	1840	1930	1160	319	147	96	68
13	82	100	115	243	290	1670	1660	1020	314	146	84	68
14	82	103	127	183	250	1900	1370	796	306	137	82	66
15	86	108	151	205	270	2250	3420	711	300	118	80	68
16	92	108	217	220	300	1660	5540	983	298	104	76	70
17	92	106	365	190	321	960	3730	1060	220	104	70	70
18	92	107	243	160	341	1170	2720	1050	239	102	70	70
19	92	106	155	150	423	2400	2270	999	391	100	70	68
20	92	107	185	140	451	2860	1630	1030	739	92	70	66
21	94	108	215	130	491	3560	1880	843	808	93	68	78
22	92	112	220	120	496	5840	2210	698	493	93	70	76
23	82	406	183	120	510	3310	2640	1030	425	93	70	72
24	82	372	204	130	515	1890	4300	1210	336	94	66	70
25	82	251	528	170	494	1670	7360	1010	161	92	72	70
26	82	228	1170	260	431	1320	5150	877	152	89	76	70
27	82	186	972	276	367	1110	3770	799	151	89	78	70
28	78	172	553	258	320	1250	3860	757	2850	87	76	68
29	76	178	614	276	---	1840	2400	710	4500	88	82	64
30	76	505	597	241	---	1630	2480	748	1460	76	74	68
31	74	---	493	194	---	1190	---	811	---	167	80	---
TOTAL	2652	5320	9791	6800	20592	48317	79160	45092	18430	6837	3184	2136
MEAN	85.5	177	316	219	735	1559	2639	1455	614	221	103	71.2
MAX	104	535	1170	418	3210	5840	7360	4790	4500	910	451	78
MIN	74	76	113	120	182	397	1020	698	151	76	66	64
CFSM	.11	.23	.41	.28	.95	2.02	3.42	1.89	.80	.29	.13	.09
IN.	.13	.26	.47	.33	.99	2.33	3.82	2.18	.89	.33	.15	.10

CAL YR 1982 TOTAL 281839 MEAN 772 MAX 11000 MIN 74 CFSM 1.00 IN 13.60
WTR YR 1983 TOTAL 248311 MEAN 680 MAX 7360 MIN 64 CFSM .88 IN 11.98

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°43'08", Steuben County, Hydrologic Unit 02050104, on right bank 1,000 ft upstream from Arkport Dam on Canisteo River, 1.3 mi west of Arkport, and 2.3 mi upstream from small tributary.

DRAINAGE AREA.--30.5 mi².

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WSP 1552: 1951-57. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft between elevations 1,218.0 ft, sill of conduit, and 1,304.0 ft, crest of spillway. No dead storage. The flood control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,304.04 ft June 23, 1972, contents, 7,944 acre-ft; minimum, 1,226.26 ft Oct. 21, 22, 23, 24, 25, 1980, contents, 0.3 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,234.44 ft Nov. 4, contents, 246 acre-ft; minimum, 1,226.37 ft many days in September, contents, 0.4 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

1,226.00	0	1,235.00	264	1,270.00	2,908
1,227.00	1	1,240.00	462	1,280.00	4,142
1,228.00	8	1,245.00	719	1,290.00	5,552
1,229.00	51	1,250.00	1,040	1,300.00	7,192
1,230.00	122	1,260.00	1,861	1,310.00	9,161

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1226.47	1226.46	1227.78	1227.93	1227.65	1228.05	1228.14	1229.67	1228.00	1228.43	1227.71	1226.40
2	1226.47	1226.47	1227.73	1227.92	1227.90	1228.03	1228.13	1229.50	1227.96	1228.36	1227.77	1226.40
3	1226.47	1226.48	1227.71	1227.89	1228.30	1228.01	1228.15	1229.34	1227.93	1228.29	1227.71	1226.39
4	1226.47	1231.66	1227.70	1227.82	1228.20	1228.01	1228.13	1228.99	1227.97	1228.24	1227.69	1226.39
5	1226.47	1227.76	1227.69	1227.79	1228.20	1228.03	1228.11	1228.18	1227.95	1228.22	1227.72	1226.39
6	1226.47	1227.47	1227.70	1227.82	1228.20	1228.02	1228.11	1228.11	1227.93	1228.17	1227.74	1226.39
7	1226.47	1227.21	1227.68	1227.82	1228.15	1228.01	1228.11	1228.07	1228.00	1228.13	1227.72	1226.38
8	1226.47	1227.09	1227.66	1227.80	1228.10	1228.00	1228.11	1228.06	1227.95	1228.09	1227.68	1226.38
9	1226.47	1227.06	1227.65	1227.76	1228.03	1228.00	1228.09	1228.09	1227.88	1228.01	1227.67	1226.38
10	1226.47	1227.05	1227.61	1227.83	1228.25	1228.16	1228.10	1228.03	1227.85	1227.90	1227.66	1226.38
11	1226.47	1227.05	1227.63	1228.07	1228.14	1228.31	1228.09	1228.00	1227.83	1227.81	1227.67	1226.37
12	1226.47	1227.19	1227.61	1227.97	1228.02	1228.21	1228.08	1227.98	1227.80	1227.70	1227.86	1226.37
13	1226.46	1227.51	1227.60	1227.83	1228.02	1228.16	1228.09	1227.96	1227.77	1227.67	1227.80	1226.42
14	1226.46	1227.19	1227.61	1227.88	1227.94	1228.24	1228.12	1227.94	1227.76	1227.65	1227.73	1226.37
15	1226.46	1227.09	1227.63	1227.86	1227.92	1228.35	1228.50	1227.94	1227.75	1227.63	1227.69	1226.37
16	1226.46	1227.06	1227.73	1227.82	1227.93	1228.24	1228.50	1228.00	1227.82	1227.62	1227.64	1226.37
17	1226.46	1227.05	1227.65	1227.82	1227.96	1228.18	1228.14	1227.96	1227.97	1227.61	1227.63	1226.37
18	1226.46	1227.04	1227.56	1227.80	1227.99	1228.14	1228.14	1227.92	1227.99	1227.61	1227.63	1226.37
19	1226.46	1227.03	1227.58	1227.70	1228.01	1228.24	1228.14	1227.91	1227.88	1227.61	1227.62	1226.38
20	1226.47	1227.03	1227.57	1227.70	1228.03	1228.30	1228.15	1228.00	1227.83	1227.64	1227.60	1226.38
21	1226.46	1227.03	1227.57	1227.70	1228.09	1228.44	1228.29	1227.96	1227.80	1227.67	1227.59	1226.39
22	1226.46	1227.10	1227.57	1227.65	1228.13	1228.41	1228.55	1227.97	1227.77	1227.71	1227.59	1226.39
23	1226.46	1227.41	1227.57	1227.65	1228.14	1228.13	1228.59	1228.11	1227.74	1227.69	1227.20	1226.40
24	1226.46	1227.59	1227.87	1227.70	1228.08	1228.07	1228.54	1228.08	1227.71	1227.72	1226.48	1226.41
25	1226.46	1227.31	1229.59	1227.70	1228.03	1228.00	1228.91	1228.00	1227.70	1227.71	1226.43	1226.41
26	1226.46	1227.16	1228.48	1227.70	1227.98	1227.96	1228.95	1228.00	1227.69	1227.67	1226.43	1226.39
27	1226.46	1227.10	1228.24	1227.60	1227.98	1227.97	1229.00	1227.97	1227.86	1227.64	1226.43	1226.39
28	1226.46	1227.13	1228.21	1227.60	1228.01	1228.22	1228.23	1227.93	1229.50	1227.62	1226.42	1226.39
29	1226.46	1227.93	1228.12	1227.65	---	1228.23	1228.16	1227.93	1228.66	1227.65	1226.41	1226.39
30	1226.46	1227.89	1228.04	1227.65	---	1228.16	1229.19	1228.13	1228.56	1227.66	1226.41	1226.39
31	1226.47	---	1227.95	1227.65	---	1228.14	---	1228.06	---	1227.66	1226.41	---
MEAN	1226.46	1227.32	1227.82	1227.78	1228.05	1228.14	1228.32	1228.19	1227.96	1227.83	1227.35	1226.39
MAX	1226.47	1231.66	1229.59	1228.07	1228.30	1228.44	1229.19	1229.67	1229.50	1228.43	1227.86	1226.42
MIN	1226.46	1226.46	1227.56	1227.60	1227.65	1227.96	1228.08	1227.91	1227.69	1227.61	1226.41	1226.37
†	0.5	6.7	7.9	5.6	11.4	14.4	124	8.9	26.9	5.6	0.4	0.4
††	0	+0.1	0	0	+0.1	0	+1.8	-1.9	+0.3	-0.3	-0.1	0

CAL YR 1982 MEAN 1228.32 MAX 1256.71 MIN 1226.46 †† 0
WTR YR 1983 MEAN 1227.63 MAX 1231.66 MIN 1226.37 †† 0

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01521500 CANISTEO RIVER AT ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, Hydrologic Unit 02050104, on left bank 0.2 mi downstream from Arkport Dam, and 0.9 mi west of Arkport.

DRAINAGE AREA.--30.6 mi^2.

PERIOD OF RECORD.--January 1937 to current year.

REVISED RECORDS.--WSP 1552: 1952-57. WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.85 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Since November 1939, flows above 500 ft^3/s controlled by detention in Arkport Reservoir (see station 01521000).

AVERAGE DISCHARGE.--46 years, 35.2 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s Mar. 5, 1938, Feb. 20, 1939; maximum gage height, 5.63 ft Feb. 19, 1939 (ice jam); practically no flow July 30, 1938, Sept. 30, 1939 (result of construction operations).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a discharge of 4,820 ft^3/s, on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 588 ft^3/s June 28, gage height, 2.96 ft; minimum, 0.68 ft^3/s Sept. 13, 14, gage height, 0.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.9	38	12	12	21	32	118	23	22	2.5	1.9
2	2.5	15	30	16	36	20	31	125	17	15	3.2	1.3
3	2.3	12	26	15	152	20	64	115	14	11	2.3	1.1
4	2.3	462	24	8.4	62	20	52	88	18	7.8	1.9	.95
5	2.3	114	23	5.4	46	23	41	57	16	6.0	2.3	1.1
6	2.3	41	26	9.8	44	21	33	44	13	5.2	2.7	.95
7	2.3	25	22	12	26	20	49	34	22	4.9	2.3	1.1
8	2.5	18	18	8.4	21	19	58	31	15	4.3	1.9	.95
9	2.5	14	14	4.0	19	19	41	38	9.1	4.0	1.7	.95
10	2.5	11	6.6	5.4	12	45	60	28	7.2	3.7	1.5	.95
11	2.5	11	11	26	17	71	51	24	6.2	3.2	1.7	.95
12	2.9	28	6.6	21	21	50	47	20	5.0	2.9	5.5	.95
13	2.9	52	5.4	21	37	37	37	18	4.4	2.7	4.3	.80
14	2.9	26	7.8	12	40	56	30	16	3.9	2.7	2.7	.95
15	4.6	20	14	13	35	82	174	16	3.8	2.5	2.3	.80
16	6.0	15	44	12	21	56	94	23	12	2.3	1.7	.80
17	4.0	13	25	14	16	47	56	18	26	2.3	1.7	.95
18	3.4	11	14	11	15	40	51	14	24	2.3	1.9	.80
19	2.9	8.5	14	17	17	58	49	13	11	2.3	1.5	.80
20	2.9	7.2	13	16	12	73	44	23	7.4	2.7	1.3	.80
21	2.9	8.5	14	15	23	135	52	18	5.6	2.9	1.3	1.7
22	2.7	18	13	14	33	100	96	19	4.5	3.2	1.3	2.1
23	2.7	40	14	12	35	54	84	40	3.8	2.5	1.5	1.7
24	2.5	63	106	17	27	40	103	35	3.3	3.2	1.3	1.5
25	2.5	36	236	18	22	30	120	23	3.0	2.9	1.1	1.5
26	2.5	26	110	18	12	26	155	23	2.7	2.3	1.1	1.5
27	2.5	22	55	11	4.8	30	116	18	38	1.9	1.3	1.5
28	2.5	21	51	11	8.4	63	63	15	478	1.7	1.1	1.5
29	2.5	152	39	12	---	75	50	14	114	1.9	1.1	1.3
30	2.5	62	25	11	---	45	145	46	35	2.1	1.3	1.1
31	2.7	---	12	13	---	36	---	30	---	1.9	1.9	---
TOTAL	87.7	1357.1	1057.4	411.4	826.2	1432	2078	1144	945.9	136.3	61.2	35.25
MEAN	2.83	45.2	34.1	13.3	29.5	46.2	69.3	36.9	31.5	4.40	1.97	1.18
MAX	6.0	462	236	26	152	135	174	125	478	22	5.5	2.1
MIN	2.3	4.9	5.4	4.0	4.8	19	30	13	2.7	1.7	1.1	.80

CAL YR 1982 TOTAL 12585.00 **MEAN** 34.5 **MAX** 558 MIN 1.9
WTR YR 1983 TOTAL 9572.45 **MEAN** 26.2 **MAX** 478 MIN .80

01523000 ALMOND LAKE NEAR ALMOND, NY

LOCATION.--Lat 42°20'56", long 77°42'10", Steuben County, Hydrologic Unit 02050104, at Almond Dam on Canacadea Creek, 2 mi northeast of Almond, and 3 mi upstream from mouth.

DRAINAGE AREA.--55.8 mi^2.

PERIOD OF RECORD.--July 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as "Almond Reservoir near Almond."

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft between elevations 1,229.0 ft (sill of gates) and 1,300.0 ft (crest of spillway). No dead storage. Figures given herein represent usable contents. Discharge is controlled by the operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,298.58 ft June 23, 1972, contents, 14,100 acre-ft; no contents for many days each year 1949-65.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,260.54 ft June 28, contents, 1,836 acre-ft; minimum, 1,249.81 ft Feb 27, contents, 555 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,240.00	80	1,260.00	1,750
1,245.00	230	1,270.00	3,750
1,250.00	570	1,280.00	6,570
1,255.00	1,080	1,290.00	10,300

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1255.02	1250.68	1250.59	1250.30	1250.68	1251.20	1250.47	1251.41	1255.46	1255.13	1255.20	1255.11
2	1254.91	1250.83	1250.74	1250.36	1250.75	1251.23	1250.47	1251.55	1255.34	1255.26	1255.30	1255.01
3	1254.86	1250.93	1250.70	1250.36	1252.28	1250.61	1250.83	1254.69	1255.24	1255.55	1255.22	1255.00
4	1254.82	1253.68	1250.45	1250.13	1250.99	1250.50	1250.87	1255.35	1255.24	1255.63	1255.12	1254.97
5	1254.78	1251.19	1250.29	1250.14	1250.88	1250.63	1250.80	1255.61	1255.26	1255.57	1255.11	1254.94
6	1254.73	1250.97	1250.79	1250.54	1250.80	1250.68	1251.05	1256.09	1255.26	1255.48	1255.12	1254.92
7	1254.68	1251.15	1251.13	1250.61	1251.17	1250.70	1251.34	1254.20	1255.45	1255.37	1255.09	1254.93
8	1254.64	1250.98	1251.19	1250.66	1251.30	1250.69	1250.94	1254.62	1255.44	1255.26	1255.04	1254.93
9	1254.60	1250.50	1250.95	1250.46	1251.22	1250.64	1250.58	1255.40	1255.30	1255.26	1255.00	1254.90
10	1254.55	1250.02	1250.48	1250.42	1250.68	1251.01	1251.08	1255.61	1255.21	1255.27	1255.01	1254.84
11	1254.52	1250.37	1250.67	1250.59	1250.24	1251.32	1251.05	1255.57	1255.25	1255.26	1255.03	1254.80
12	1254.26	1251.02	1250.71	1250.45	1250.27	1251.17	1250.27	1255.40	1255.27	1255.24	1255.13	1254.78
13	1253.25	1251.70	1250.61	1250.10	1250.16	1250.70	1250.24	1255.22	1255.27	1255.21	1255.20	1254.75
14	1251.28	1251.30	1250.57	1250.63	1250.11	1250.51	1250.43	1255.20	1255.25	1255.17	1255.24	1254.70
15	1250.48	1250.94	1250.63	1250.74	1250.23	1251.28	1250.86	1255.17	1255.21	1255.11	1255.27	1254.67
16	1250.32	1250.58	1251.53	1250.79	1250.32	1251.25	1250.51	1255.30	1255.20	1255.06	1255.29	1254.62
17	1250.05	1250.39	1252.02	1250.67	1250.56	1250.74	1250.81	1255.35	1255.41	1255.05	1255.31	1254.62
18	1250.08	1250.64	1251.07	1250.47	1250.79	1250.29	1250.76	1255.24	1255.54	1255.08	1255.34	1254.62
19	1250.18	1250.65	1250.31	1250.32	1250.90	1250.64	1250.60	1255.12	1255.27	1255.12	1255.36	1254.60
20	1250.24	1250.57	1250.40	1250.48	1250.96	1250.96	1250.36	1255.33	1255.22	1255.18	1255.35	1254.58
21	1250.34	1250.53	1250.60	1250.57	1251.27	1251.48	1250.94	1255.25	1255.16	1255.25	1255.33	1254.64
22	1250.40	1250.78	1250.67	1250.65	1251.21	1250.92	1251.36	1255.26	1255.12	1255.35	1255.33	1254.88
23	1250.44	1251.12	1250.84	1250.64	1251.19	1250.59	1252.17	1255.87	1255.12	1255.19	1255.33	1254.92
24	1250.45	1251.38	1251.74	1250.34	1250.86	1251.33	1251.71	1255.75	1255.12	1255.21	1255.34	1254.92
25	1250.46	1251.75	1251.81	1250.33	1250.39	1251.65	1251.52	1255.38	1255.09	1255.19	1255.33	1254.93
26	1250.47	1250.71	1250.92	1250.44	1250.34	1251.53	1251.94	1255.42	1255.07	1255.13	1255.34	1254.94
27	1250.47	1250.77	1250.53	1250.46	1250.17	1251.46	1253.30	1255.53	1255.18	1255.07	1255.36	1254.99
28	1250.48	1250.33	1250.84	1250.38	1250.79	1251.70	1251.12	1255.56	1258.40	1255.06	1255.39	1255.02
29	1250.48	1251.93	1250.54	1250.23	---	1251.51	1250.61	1255.56	1255.49	1255.08	1255.43	1255.07
30	1250.49	1251.69	1250.71	1250.51	---	1250.92	1252.14	1255.85	1255.13	1255.11	1255.44	1255.12
31	1250.51	---	1250.43	1250.77	---	1250.29	---	1255.74	---	1255.13	1255.30	---
MEAN	1252.17	1251.00	1250.82	1250.47	1250.77	1250.97	1251.04	1255.12	1255.37	1255.23	1255.25	1254.86
MAX	1255.02	1253.68	1252.02	1250.79	1252.28	1251.70	1253.30	1256.09	1258.40	1255.63	1255.44	1255.12
MIN	1250.05	1250.02	1250.29	1250.10	1250.11	1250.29	1250.24	1251.41	1255.07	1255.05	1255.00	1254.58
†	620	661	610	638	663	609	685	1,152	1,097	1,097	1,104	1,096
††	-7.6	+0.7	-0.8	+0.5	+0.4	-0.9	+1.3	+7.6	-0.9	0	+0.1	-0.1

CAL YR 1982 MEAN 1253.06 MAX 1267.43 MIN 1250.02 †† 0
WTR YR 1983 MEAN 1252.77 MAX 1258.40 MIN 1250.02 †† 0

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01523500 CANACADEA CREEK NEAR HORNELL, NY

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, Hydrologic Unit 02050104, on right bank 35 ft downstream from bridge on State Highway 21, 1.2 mi west of Hornell, 1.5 mi downstream from Almond Dam, and 2 mi upstream from mouth.

DRAINAGE AREA.--57.9 mi^2.

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1971: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft National Geodetic Vertical Datum of 1929. Oct. 23, 1940 to Dec. 31, 1942, at site 185 ft upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Since October 1948, floodflows regulated by detention in Almond Lake (see station 01523000). Occasional regulation at low flows to clear debris from gates at Almond Lake. Monthly figures for 1952-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--41 years (1940-42, 1944-83), 64.4 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,430 ft^3/s May 17, 1945, gage height, 5.14 ft, from rating curve extended above 3,400 ft^3/s; maximum gage height, 6.65 ft June 3, 1947; minimum discharge, 0.5 ft^3/s May 29, 1965, gage height, 0.61 ft; minimum daily, 0.6 ft^3/s May 30 to June 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a stage of 16.61 ft, discharge, 21,000 ft^3/s, from floodmarks on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,440 ft^3/s June 28, gage height, 3.40 ft; minimum 5.7 ft^3/s Sept 27, gage height, 0.82 ft, result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	79	38	25	32	50	346	46	35	9.6	21
2	12	18	51	33	56	50	50	381	34	23	15	12
3	12	18	51	33	428	44	106	328	28	23	18	10
4	11	618	51	26	130	35	88	235	26	22	15	10
5	11	264	37	17	65	34	50	101	26	22	13	10
6	11	66	29	19	51	34	50	103	26	22	13	10
7	11	42	29	23	37	34	68	208	27	21	13	10
8	11	41	34	23	37	34	144	34	28	16	13	10
9	11	41	37	23	36	34	65	58	26	13	9.5	10
10	11	23	27	23	40	65	98	58	18	13	8.5	10
11	11	15	23	45	30	186	114	58	15	13	8.4	10
12	41	21	23	42	20	73	79	56	15	13	8.9	10
13	61	137	23	20	20	81	59	45	15	13	8.8	10
14	68	33	23	20	20	84	51	39	15	13	7.9	10
15	21	53	23	24	22	130	410	41	15	11	7.8	10
16	21	35	48	24	22	106	186	41	15	11	8.4	10
17	13	27	61	24	23	79	91	41	16	8.0	7.9	10
18	9.1	23	61	20	31	59	91	39	33	7.5	7.8	10
19	9.1	26	38	15	34	96	91	31	27	7.5	8.5	9.1
20	9.1	26	27	20	34	114	65	45	17	7.5	8.5	8.7
21	9.1	26	27	25	41	285	75	42	16	8.5	8.5	9.3
22	9.1	38	27	25	58	306	133	37	11	17	8.4	11
23	9.6	117	22	25	58	93	144	61	11	19	8.0	10
24	9.6	63	182	24	56	51	178	68	11	15	8.4	10
25	9.6	63	447	23	41	51	301	54	11	15	7.9	8.4
26	9.6	61	269	23	33	51	174	28	11	15	6.3	7.4
27	9.6	54	88	23	26	50	226	28	84	12	6.8	6.1
28	9.6	34	88	23	28	91	174	28	1170	9.6	6.9	6.1
29	9.6	249	70	21	---	159	75	28	404	9.6	7.5	6.2
30	9.1	144	45	15	---	88	376	45	59	9.6	12	6.1
31	9.1	---	45	22	---	61	---	53	---	9.6	35	---
TOTAL	480.9	2390	2085	761	1505	2690	3862	2760	2256	454.4	326.2	291.4
MEAN	15.5	79.7	67.3	24.5	53.8	86.8	129	89.0	75.2	14.7	10.5	9.71
MAX	68	618	447	45	428	306	410	381	1170	35	35	21
MIN	9.1	14	22	15	20	32	50	28	11	7.5	6.3	6.1

CAL YR 1982 TOTAL 25737.2 MEAN 70.5 MAX 964 MIN 5.3
WTR YR 1983 TOTAL 19861.9 MEAN 54.4 MAX 1170 MIN 6.1

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft upstream from Erie Railroad bridge in Hornell, 0.3 mi upstream from Crosby Creek, and 1.5 mi downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--August 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Diversion from Carrington Creek, a tributary upstream from station, by city of Hornell for municipal supply (1983 average, 2.8 ft^3/s); sewage enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to materially affect figures of monthly runoff.

COOPERATION.--Records of diversion from Carrington Creek furnished by city of Hornell.

AVERAGE DISCHARGE.--41 years, 156 ft^3/s, 13.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft^3/s June 23, 1972, gage height, 13.45 ft from floodmark, from rating curve extended above 7,600 ft^3/s on basis of critical-depth measurement of peak flow; minimum, 7.4 ft^3/s Sept. 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft^3/s June 28, gage height, 7.07 ft; minimum 16 ft^3/s Aug. 28, gage height, 0.48 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	35	162	92	64	99	152	631	113	111	28	33
2	33	50	121	88	83	113	147	710	91	78	32	25
3	29	51	113	82	678	106	261	678	82	65	32	26
4	29	595	109	66	277	95	231	503	83	60	29	25
5	28	362	94	58	130	101	185	290	81	56	32	23
6	28	134	86	65	120	97	161	239	80	52	29	23
7	28	84	80	66	100	95	193	323	89	50	28	23
8	29	71	76	65	96	91	288	159	82	45	27	21
9	29	64	77	56	92	92	189	199	70	40	25	21
10	28	49	58	60	74	160	254	169	61	38	22	19
11	28	38	60	100	74	357	269	152	55	36	23	22
12	55	50	54	100	70	208	226	144	52	33	42	21
13	78	170	54	58	62	199	182	127	50	28	33	18
14	98	88	56	60	62	224	156	114	48	26	26	18
15	48	105	58	62	60	324	697	114	46	24	23	20
16	49	78	117	60	62	242	564	125	70	23	31	25
17	40	70	126	58	70	204	296	113	88	21	27	23
18	32	60	92	54	80	172	274	103	100	21	27	21
19	32	61	74	50	88	250	261	96	80	26	26	20
20	32	56	70	50	93	295	220	123	61	23	21	18
21	33	59	70	44	112	539	234	113	57	23	20	31
22	32	78	66	42	139	606	404	108	48	35	23	28
23	32	173	65	54	147	269	436	164	47	36	23	23
24	30	155	221	66	130	189	472	159	44	42	22	22
25	29	132	595	66	106	164	697	132	43	32	22	20
26	29	117	422	62	87	147	557	100	42	28	20	20
27	29	105	215	58	81	154	590	93	113	25	18	18
28	29	81	201	56	89	229	381	87	1780	22	17	17
29	29	412	169	54	---	340	248	86	727	25	23	17
30	28	252	124	52	---	218	593	137	174	24	23	17
31	28	---	106	61	---	176	---	129	---	23	55	---
TOTAL	1118	3835	3991	1965	3326	6555	9818	6420	4557	1171	829	658
MEAN	36.1	128	129	63.4	119	211	327	207	152	37.8	26.7	21.9
MAX	98	595	595	100	678	606	697	710	1780	111	55	33
MIN	28	35	54	42	60	91	147	86	42	21	17	17

CAL YR 1982 TOTAL 52370 MEAN 143 MAX 1600 MIN 20
WTR YR 1983 TOTAL 44243 MEAN 121 MAX 1780 MIN 17

01526500 TIOGA RIVER NEAR ERWINS, NY

LOCATION.--Lat 42°07'16", long 77°07'46", Steuben County, Hydrologic Unit 02050104, on right bank 20 ft downstream from bridge on Mulholland Road, 1.1 mi northeast of Erwins, and 1.1 mi downstream from Canisteo River.

DRAINAGE AREA.--1,377 mi^2.

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935-38. WSP 1672: 1919(M), 1927(M), 1929(M). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft National Geodetic Vertical Datum of 1929. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good except those for winter periods, which are fair. High flows regulated by upstream reservoirs.

AVERAGE DISCHARGE.--65 years, 1,371 ft^3/s, 13.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190,000 ft^3/s June 23, 1972, from rating curve extended above 90,000 ft^3/s on basis of computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 mi and 2.0 mi upstream, respectively, adjusted for flow from intervening area, gage height, 26.74 ft, from floodmarks; minimum, 18 ft^3/s Sept. 2, 3, 1939; minimum gage height, 0.40 ft Sept. 8, 9, 1954, July 23, Aug. 10, 11, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,900 ft^3/s June 29 at 0100 hours, gage height, 8.58 ft, no peak above base of 17,000 ft^3/s; minimum discharge, 88 ft^3/s Aug 25, 26, Sept. 29; minimum gage height, 0.62 ft Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	124	1000	788	394	767	1930	5660	1060	1410	312	176
2	167	125	576	756	521	828	1720	6550	637	966	417	176
3	155	172	554	654	5620	845	2240	7270	566	735	283	143
4	142	378	592	517	5100	843	3400	5050	585	642	207	127
5	133	2240	497	480	3680	835	2560	3630	603	942	176	127
6	127	940	516	446	2330	822	2250	2770	613	681	172	124
7	128	468	573	467	1600	841	2100	2500	646	485	172	118
8	130	364	570	457	1200	908	2560	2210	642	414	157	115
9	126	323	481	415	1000	919	2860	2700	603	325	147	109
10	124	306	398	376	900	1100	3030	2600	547	310	137	104
11	126	287	354	462	780	3170	4550	2000	509	288	127	104
12	126	256	303	630	680	3290	3260	1780	484	277	137	101
13	126	264	273	506	600	2730	2780	1610	468	263	150	101
14	166	451	323	413	540	2770	2320	1310	455	246	150	98
15	204	315	351	423	500	3420	4670	1160	443	211	147	98
16	172	310	455	430	520	3100	9290	1480	434	172	137	98
17	157	273	802	380	540	1980	5850	1620	416	165	127	101
18	154	261	553	340	600	1910	4270	1480	513	161	121	106
19	142	239	379	300	680	3030	3780	1370	725	157	115	106
20	136	238	468	280	760	4490	2850	1450	926	154	109	98
21	139	239	463	270	839	4450	3010	1340	1020	147	104	118
22	137	254	463	260	928	9810	3470	1070	717	147	98	140
23	128	794	423	260	1000	5320	4020	1600	638	150	96	157
24	123	1020	452	320	1020	3180	4620	1910	585	172	90	127
25	121	764	1880	400	968	2630	9700	1620	357	168	88	115
26	119	618	3690	580	840	2150	7780	1380	280	157	88	112
27	118	526	2230	561	688	1850	6110	1220	270	143	98	109
28	118	457	1390	519	677	1960	5490	1140	3410	140	98	106
29	112	543	1350	528	---	2850	4070	1050	7920	133	112	98
30	112	1480	1180	482	---	2870	3760	1070	2400	127	137	101
31	110	---	934	427	---	2070	---	1250	---	118	147	---
TOTAL	4265	15029	24473	14127	35505	77738	120300	70850	29472	10606	4656	3513
MEAN	138	501	789	456	1268	2508	4010	2285	982	342	150	117
MAX	204	2240	3690	788	5620	9810	9700	7270	7920	1410	417	176
MIN	110	124	273	260	394	767	1720	1050	270	118	88	98
CFSM	.10	.36	.57	.33	.92	1.82	2.91	1.66	.71	.25	.11	.09
IN.	.12	.41	.66	.38	.96	2.10	3.25	1.91	.80	.29	.13	.09

CAL YR 1982 TOTAL 476616 MEAN 1306 MAX 16600 MIN 110 CFSM .95 IN 12.88
WTR YR 1983 TOTAL 410534 MEAN 1125 MAX 9810 MIN 88 CFSM .82 IN 11.09

01528000 FIVEMILE CREEK NEAR KANONA, NY

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from town of Wheeler highway bridge, 1.3 mi upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi^2.

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,170.30 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--46 years, 76.1 ft^3/s, 15.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft^3/s June 23, 1972, gage height, 6.95 ft present datum; maximum gage height, 7.10 ft present datum, Mar. 31, 1940 (ice jam); minimum discharge, 0.04 ft^3/s Sept. 27, 29, 1941; minimum gage height, 0.53 ft Sept. 20, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 664 ft^3/s at 2330 hours Dec. 25, gage height, 3.70 ft, no peak above base of 880 ft^3/s; minimum, 0.40 ft^3/s Sept. 20, gage height, 0.53 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.6	96	60	37	58	92	281	40	21	4.7	2.0
2	7.4	13	74	45	44	65	81	306	37	15	4.7	1.7
3	5.6	12	64	35	345	61	160	278	31	12	3.8	1.7
4	5.0	246	65	29	300	61	162	221	28	11	3.6	1.5
5	4.7	400	61	29	94	81	115	160	27	13	4.4	1.7
6	4.7	164	76	32	76	78	96	123	28	11	3.8	1.7
7	4.7	89	68	32	72	81	101	98	27	8.4	3.4	2.0
8	4.7	59	54	31	60	72	140	87	23	7.7	2.8	1.7
9	4.7	45	47	31	54	64	110	92	18	6.8	2.7	1.5
10	4.1	37	35	35	50	84	158	78	16	5.9	2.5	1.4
11	4.4	31	34	39	47	115	200	66	16	5.9	2.5	1.2
12	7.4	34	35	48	43	106	133	59	13	5.3	4.4	1.1
13	7.4	72	29	39	39	87	108	53	12	5.0	4.4	1.1
14	5.3	57	30	31	37	96	89	45	11	5.3	3.4	1.0
15	5.6	44	32	30	29	122	249	46	9.8	6.5	2.8	1.0
16	5.6	35	77	29	33	96	400	50	8.8	5.0	2.5	1.0
17	5.6	29	101	33	35	86	221	44	18	4.4	2.3	1.2
18	6.2	27	52	25	49	74	144	41	20	4.4	2.3	1.1
19	6.8	25	52	22	50	156	123	37	12	4.1	2.0	1.0
20	5.9	31	39	18	54	169	115	90	7.7	4.4	1.9	.88
21	5.9	39	40	16	68	236	122	78	7.4	4.7	1.7	2.3
22	5.6	41	39	31	80	487	184	62	6.5	4.7	1.9	5.3
23	5.6	95	43	43	86	216	333	113	5.9	5.9	1.9	3.4
24	5.6	89	55	44	80	120	327	90	5.9	6.5	1.5	2.5
25	6.5	69	330	44	66	90	585	65	5.3	5.0	1.5	1.9
26	6.5	55	517	43	50	76	513	59	5.6	3.6	1.9	1.9
27	6.2	52	202	35	39	83	498	47	7.1	3.6	2.3	1.7
28	6.2	49	162	35	43	101	259	42	122	3.8	1.9	1.4
29	6.2	110	136	31	---	154	164	37	80	4.7	1.5	1.4
30	5.6	150	101	39	---	127	241	46	36	5.0	1.5	1.1
31	5.3	---	76	39	---	100	---	46	---	4.4	2.2	---
TOTAL	181.0	2204.6	2822	1073	2060	3602	6223	2940	685.0	214.0	84.7	50.38
MEAN	5.84	73.5	91.0	34.6	73.6	116	207	94.8	22.8	6.90	2.73	1.68
MAX	10	400	517	60	345	487	585	306	122	21	4.7	5.3
MIN	4.1	5.6	29	16	29	58	81	37	5.3	3.6	1.5	.88
CFSM	.09	1.10	1.36	.52	1.10	1.74	3.10	1.42	.34	.10	.04	.03
IN.	.10	1.23	1.57	.60	1.15	2.01	3.47	1.64	.38	.12	.05	.03

CAL YR 1982 TOTAL 33601.40 MEAN 92.1 MAX 1200 MIN 3.0 CFSM 1.38 IN 18.71
WTR YR 1983 TOTAL 22139.68 MEAN 60.7 MAX 585 MIN .88 CFSM .91 IN 12.33

01528700 DIVERSION FROM WANETA LAKE TO KEUKA LAKE AT KEUKA, NY

LOCATION.--Lat 42°29'06", long 77°06'39", Steuben County, Hydrologic Unit 02050105, at entrance to conduit on Diversion Canal, 0.8 mi east of Keuka, and 1.0 mi north of Wayne.

DRAINAGE AREA.--45.5 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Daily power generation records.

REMARKS.--Records for March 1931 (when diversion and power generation began) to September 1966 on file. Sketch indicates diversion from Lamoka-Waneta Lakes (Susquehanna River Basin) to Keuka Lake (Oswego River Basin).

COOPERATION.--Records furnished by New York State Electric and Gas Corp.

AVERAGE DISCHARGE.--17 years, 20.1 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73 ft³/s June 23, 1972; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s Mar. 30, 31, Apr. 1-23, May 11-26, June 30; no flow many days.

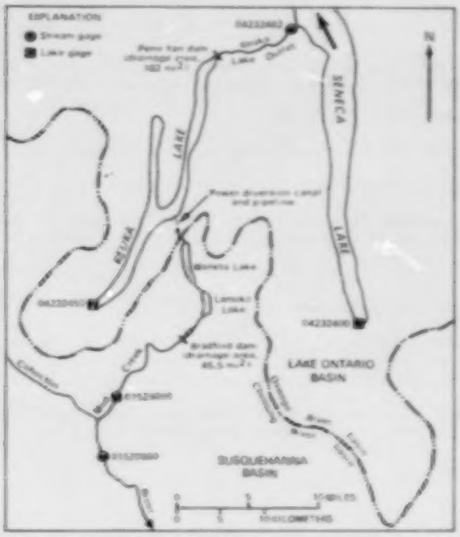


Figure 5.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	.00	.00	.00	.00	.00	72	.00	45	45	.00	.00
2	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
4	36	.00	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
5	63	.00	.00	.00	.00	.00	72	.00	.00	30	.00	.00
6	63	.00	.00	.00	.00	.00	72	.00	.00	66	.00	.00
7	63	.00	.00	.00	.00	.00	72	.00	.00	66	.00	.00
8	31	24	.00	.00	.00	.00	72	.00	.00	36	.00	.00
9	.00	49	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
10	.00	50	.00	.00	.00	.00	72	20	.00	.00	.00	.00
11	.00	49	.00	.00	.00	.00	72	72	.00	.00	.00	.00
12	25	28	.00	.00	.00	.00	72	72	.00	.00	.00	.00
13	49	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
14	49	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
15	31	23	.00	.00	.00	.00	72	72	.00	.00	.00	.00
16	.00	48	.00	.00	.00	.00	72	72	.00	.00	.00	.00
17	.00	45	.00	.00	.00	.00	72	72	.00	.00	.00	.00
18	.00	23	.00	.00	.00	.00	72	72	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00
23	.00	24	.00	.00	.00	.00	72	72	.00	.00	.00	.00
24	.00	24	.00	.00	.00	.00	60	72	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	32	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	29	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	42	.00	.00	31	.00	.00	.00
30	.00	.00	.00	.00	---	72	.00	.00	72	.00	.00	.00
31	.00	---	.00	.00	---	72	---	41	---	.00	.00	---
TOTAL	445.00	387.00	.00	.00	.00	215.00	1716.00	1245.00	148.00	243.00	.00	.00
MEAN	14.4	12.9	.000	.000	.000	6.94	57.2	40.2	4.93	7.84	.000	.000
MAX	63	50	.00	.00	.00	72	72	72	72	66	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1982 TOTAL 8648.10 MEAN 23.7 MAX 71 MIN .00
WTR YR 1983 TOTAL 4399.00 MEAN 12.1 MAX 72 MIN .00

01529500 COHOCTON RIVER NEAR CAMPBELL, NY

LOCATION.--Lat 42°15'09", long 77°13'01", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 mi upstream from Michigan Creek, and 2 mi north of Campbell.

DRAINAGE AREA.--470 mi².

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (monthly runoff). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,016.34 ft National Geodetic Vertical Datum of 1929. Prior to Mar. 5, 1937, nonrecording gage on highway bridge.

REMARKS.--Records good except those for winter periods, which are fair. During each year since March 1931, a large part of flow from 45.5 mi² of drainage area upstream from Lake Lamoka on Mud Creek, a tributary upstream from this station, is diverted into Keuka Lake (Oswego River basin), for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--65 years, 448 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,100 ft³/s July 8, 1935, gage height, 11.6 ft, from floodmark, from rating curve extended above 24,200 ft³/s on basis of velocity-area and slope-area measurements of peak flow; minimum, 8 ft³/s Sept. 6, 7, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,910 ft³/s Mar. 21, gage height, 3.96 ft, no peak above base of 4,200 ft³/s; minimum discharge, 30 ft³/s Aug. 23-26, Sept. 25-30; minimum gage height, 0.03 ft many days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	60	400	400	171	330	610	1810	319	244	79	79
2	86	74	362	380	212	340	540	1880	290	199	88	67
3	76	94	334	340	1620	333	933	1840	260	183	79	57
4	70	546	320	280	1280	374	920	1620	251	196	70	52
5	67	1070	303	280	640	494	738	1360	246	156	92	50
6	64	586	344	270	560	486	652	1080	239	145	127	48
7	64	391	317	260	480	487	703	835	270	129	84	48
8	62	302	274	240	350	471	869	756	231	119	70	43
9	62	249	251	190	250	454	718	825	205	115	61	45
10	61	212	190	230	230	542	909	730	189	108	57	40
11	61	191	230	260	250	870	1030	603	188	101	55	38
12	62	194	210	280	250	706	847	531	171	95	103	38
13	64	276	180	180	250	575	723	483	157	90	115	34
14	62	253	200	190	270	620	629	442	147	84	88	34
15	62	211	210	180	250	800	1340	428	140	88	72	34
16	67	187	300	180	260	673	1910	483	136	84	62	34
17	72	173	360	150	320	632	1400	422	160	77	60	38
18	76	165	230	110	360	612	1150	372	235	76	61	43
19	67	157	290	100	360	977	1030	345	279	74	57	40
20	64	150	260	160	350	1130	977	478	181	76	48	34
21	65	168	230	160	409	1500	980	451	157	77	45	50
22	64	186	210	160	460	2170	1170	392	141	101	43	95
23	61	378	230	170	455	1300	1390	588	127	88	40	67
24	61	369	250	210	403	940	1460	488	119	108	38	55
25	61	317	1000	210	362	760	2260	417	114	99	34	48
26	60	270	1760	190	290	720	2040	390	109	80	38	45
27	60	254	1010	180	230	720	2060	355	112	72	61	40
28	60	234	858	170	270	812	1740	323	875	67	55	34
29	60	389	719	160	---	1010	1460	305	770	65	48	38
30	58	536	576	160	---	827	1900	369	364	76	40	37
31	57	---	438	170	---	702	---	355	---	77	58	---
TOTAL	2034	8642	12846	6600	11592	23367	35088	21756	7182	3349	2028	1405
MEAN	65.6	288	414	213	414	754	1170	702	239	108	65.4	46.8
MAX	98	1070	1760	400	1620	2170	2260	1880	875	244	127	95
MIN	57	60	180	100	171	330	540	305	109	65	34	34

CAL YR 1982 TOTAL 159104 MEAN 436 MAX 3480 MIN 56
WTR YR 1983 TOTAL 135889 MEAN 372 MAX 2260 MIN 34

01529950 CHEMUNG RIVER AT CORNING, NY

LOCATION.--Lat 42°08'47", long 77°03'28", Steuben County, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 0.2 mi upstream from bridge on State Highway 414 (Centerway) at Corning, and 1.7 mi downstream from Cohocton River.

DRAINAGE AREA.--2,006 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements water years 1941, 1968-69. October 1974 to current year.

REVISED RECORDS.--WRD NY-78-1: 1976, 1977(m).

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi^2 of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--9 years, 2,166 ft^3/s, 14.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127,000 ft^3/s Sept. 26, 1975, gage height, 32.46 ft; minimum, 102 ft^3/s Oct. 3, 1980, gage height, 14.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 40.71 ft, from floodmark (discharge 228,000 ft^3/s, from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,000 ft^3/s Mar. 21 at 2400 hours, gage height, 20.52 ft, no peak above base of 24,000 ft^3/s; minimum, 145 ft^3/s Sept. 13, 29, gage height, 14.36 ft.

REVISIONS.--The maximum discharge for the water year 1982 has been revised to 27,300 ft^3/s Oct. 28, 1981, gage height, 22.52 ft, superseding figure published in the report for 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	204	1630	1400	775	1180	2640	8010	1520	2020	618	282
2	310	209	1090	1200	895	1240	2350	9310	1060	1430	629	303
3	282	275	949	1000	8630	1240	3710	9720	923	1140	415	246
4	260	585	990	920	7190	1260	4820	7110	910	989	303	209
5	239	3480	861	860	4860	1400	3510	5380	910	1320	290	199
6	226	1830	894	800	3290	1410	3060	4180	923	1020	375	199
7	220	1000	956	740	2470	1450	2980	3560	1040	745	316	189
8	226	734	910	680	2140	1490	3930	3200	949	618	253	184
9	220	618	768	640	1630	1460	3860	4000	848	476	239	175
10	215	543	626	600	1400	1910	4950	3580	778	440	215	170
11	220	504	604	700	1300	5110	6330	2810	723	423	215	161
12	220	458	571	1030	1200	4280	4390	2460	681	390	337	161
13	215	494	578	883	1100	3500	3730	2230	640	359	367	157
14	253	734	664	954	1000	3800	3110	1870	607	345	310	157
15	296	543	588	700	960	4720	6450	1670	574	310	267	153
16	275	504	741	640	900	4070	12000	2070	543	282	233	157
17	246	449	1240	560	860	2850	7880	2150	533	260	215	157
18	253	423	908	500	960	2760	5880	1880	949	246	220	194
19	239	390	1200	540	1100	4750	5170	1750	1340	246	204	179
20	233	382	898	600	1200	6480	4120	2010	1370	239	189	161
21	220	390	734	680	1320	7420	4210	1920	1430	239	179	184
22	220	415	715	741	1490	12400	5080	1550	1000	253	175	233
23	209	1000	686	789	1560	7130	6040	2410	848	267	175	246
24	204	1550	708	854	1510	4520	7130	2660	778	296	175	194
25	204	1210	2470	1050	1390	3650	13200	2270	523	303	175	170
26	199	975	6220	1160	1190	3020	10400	2010	467	267	194	157
27	199	836	3850	1080	972	2670	9100	1760	458	233	233	153
28	199	745	2600	1000	1070	2830	7960	1610	4040	220	204	157
29	194	824	2420	944	---	4170	6110	1490	9910	215	199	149
30	194	2160	2060	943	---	3850	6820	1550	3430	204	220	157
31	194	---	1620	856	---	2890	---	1760	---	209	253	---
TOTAL	7229	24464	41749	26044	54362	110910	170920	99940	40705	16004	8392	5593
MEAN	233	815	1347	840	1942	3578	5697	3224	1357	516	271	186
MAX	345	3480	6220	1400	8630	12400	13200	9720	9910	2020	629	303
MIN	194	204	571	500	775	1180	2350	1490	458	204	175	149

CAL YR 1982 TOTAL 675912 MEAN 1852 MAX 18700 MIN 175
WTR YR 1983 TOTAL 606312 MEAN 1661 MAX 13200 MIN 149

01530500 NEWTOWN CREEK AT ELMIRA, NY

LOCATION.--Lat 42°06'16", long 76°47'54", Chemung County, Hydrologic Unit 02050105, on left bank 200 ft downstream from bridge on Linden Place in Elmira, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--77.5 mi².

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1502: 1956. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 838.35 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Diurnal fluctuation at low flow caused by operations of sand and gravel plant and wastewater treatment plant upstream.

AVERAGE DISCHARGE.--45 years, 86.8 ft³/s, 15.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 4,000 ft³/s June 23, 1972 (backwater from Chemung River); maximum gage height, 19.28 ft June 23, 1972, from floodmarks (backwater from Chemung River); minimum daily, 3.5 ft³/s Oct. 6, 7, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 3	0815	*1,420	*10.53	Apr. 16	0230	1,410	10.52

Minimum discharge, 5.0 ft³/s Aug. 20; minimum gage height, 4.83 ft Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	9.5	31	43	33	55	68	261	49	51	25	7.9
2	7.1	8.3	24	39	47	55	62	293	41	42	22	7.5
3	7.5	8.7	20	32	1040	54	107	215	35	35	21	7.5
4	7.1	20	20	26	433	52	107	202	37	30	21	7.5
5	7.5	39	19	24	222	71	82	142	33	27	21	7.5
6	7.9	21	24	23	160	63	73	113	31	23	19	7.9
7	8.3	14	24	21	90	66	81	92	41	22	19	10
8	9.5	11	20	20	70	61	100	107	33	20	19	17
9	10	10	19	18	58	73	81	215	29	19	20	11
10	11	9.1	14	21	48	164	302	112	34	18	19	7.9
11	12	10	13	38	44	268	248	91	28	17	20	8.3
12	12	11	12	44	40	172	226	78	24	18	178	7.5
13	12	13	10	24	35	138	149	68	23	17	38	7.9
14	12	13	11	23	34	153	117	61	23	17	12	7.9
15	15	12	13	22	31	131	690	59	22	18	8.3	6.4
16	17	12	41	21	31	103	967	64	22	19	7.1	6.7
17	19	11	45	20	33	87	419	55	28	19	6.0	6.4
18	17	11	21	19	40	78	268	49	52	19	6.7	8.7
19	18	11	20	18	49	188	213	46	94	20	5.7	9.1
20	18	11	19	18	60	217	192	63	43	20	5.3	13
21	14	12	18	17	84	291	194	54	31	22	5.3	17
22	6.0	15	19	17	100	277	393	50	27	22	6.0	9.1
23	6.4	30	20	20	95	154	360	87	24	21	7.1	6.7
24	6.7	25	24	39	81	117	531	94	23	25	6.7	6.0
25	7.9	20	95	50	69	89	597	66	23	27	6.4	5.3
26	8.3	17	279	35	60	73	474	58	20	23	7.5	5.7
27	8.3	17	117	32	50	73	300	51	20	19	7.5	6.4
28	7.9	16	110	30	55	106	215	44	307	19	6.7	7.5
29	7.9	37	87	27	---	149	162	43	190	20	6.7	7.1
30	8.3	54	64	33	---	95	246	44	72	20	6.7	7.1
31	7.5	---	50	33	---	77	---	44	---	23	10	---
TOTAL	325.4	508.6	1303	847	3192	3750	8024	3021	1459	712	569.7	251.5
MEAN	10.5	17.0	42.0	27.3	114	121	267	97.5	48.6	23.0	18.4	8.38
MAX	19	54	279	50	1040	291	967	293	307	51	178	17
MIN	6.0	8.3	10	17	31	52	62	43	20	17	5.3	5.3
CFSM	.14	.22	.54	.35	1.47	1.56	3.45	1.26	.63	.30	.24	.11
IN.	.16	.24	.63	.41	1.53	1.80	3.85	1.45	.70	.34	.27	.12

CAL YR 1982 TOTAL 24128.6 MEAN 66.1 MAX 931 MIN 6.0 CFSM .85 IN 11.58
WTR YR 1983 TOTAL 23963.2 MEAN 65.7 MAX 1040 MIN 5.3 CFSM .85 IN 11.50

01531000 CHEMUNG RIVER AT CHEMUNG, NY

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, Hydrologic Unit 02050105, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mi southwest of Chemung, and 10.0 mi upstream from mouth.

DRAINAGE AREA.--2,506 mi^2.

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi^2 of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--77 years (water years 1906-13, 1915-83), 2,531 ft^3/s, 13.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft^3/s June 23, 1972, gage height, 31.62 ft, from floodmark, from rating curve extended above 65,000 ft^3/s on basis of slope-area and velocity-area studies at gage height 19.57 ft and slope-area and contracted opening measurements at gage heights 23.97 and 31.62 ft; minimum, 49 ft^3/s Aug. 14, 1911, gage height, 1.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,500 ft^3/s Apr. 16 at 0600 hours, gage height, 11.52 ft, no peak above base of 30,000 ft^3/s; minimum, 172 ft^3/s Sept. 15, 16, 17, 18, gage height 3.17 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	524	305	2130	1650	740	1450	3390	10300	1960	2730	350	305
2	425	293	1480	1530	800	1540	3010	11500	1550	1900	681	299
3	379	287	1160	1420	10700	1540	3690	13100	1230	1450	664	331
4	364	409	1140	1190	11300	1530	5880	9210	1190	1180	473	281
5	337	2610	1080	960	6400	1620	4510	6850	1190	1230	386	252
6	324	2560	1040	1010	4760	1720	3910	5300	1150	1290	357	235
7	318	1380	1120	970	3380	1730	3650	4450	1260	1010	432	230
8	318	970	1080	950	2860	1800	4530	4180	1260	825	379	224
9	312	825	1000	872	2340	1810	4680	4980	1120	742	324	219
10	299	734	881	791	1820	2230	5650	4750	1040	631	299	208
11	293	699	779	910	1600	5770	8570	3840	960	598	281	198
12	312	656	742	1140	1300	5540	5910	3310	901	574	647	192
13	305	631	673	1050	1200	4520	4930	2980	862	532	614	187
14	299	725	647	896	1100	4490	4220	2570	825	506	481	187
15	331	806	707	840	1100	5150	7160	2280	797	481	401	182
16	364	673	815	780	1100	5070	20400	2490	797	440	350	172
17	350	639	1220	760	1210	3670	11600	2850	806	354	318	177
18	331	590	1270	720	1310	3310	7840	2400	1080	372	299	177
19	331	574	872	700	1410	4630	6710	2250	1430	357	299	208
20	324	541	872	660	1520	7460	5610	2430	1510	364	281	213
21	324	558	920	660	1640	6120	5360	2550	1430	350	258	219
22	305	590	891	680	1890	16700	6610	2080	1300	357	241	287
23	305	716	891	740	2020	9650	7810	2670	1000	350	235	275
24	293	1650	881	820	1990	5860	9490	3390	901	417	224	293
25	281	1420	1520	920	1820	4580	19500	2910	797	409	224	252
26	281	1190	6210	1000	1620	3960	15300	2470	622	401	219	224
27	281	1040	4970	900	1320	3420	12500	2200	590	364	235	213
28	275	930	3350	860	1360	3540	9680	1970	1230	331	281	213
29	275	960	2920	820	---	4750	7830	1820	12100	318	246	203
30	269	1850	2500	800	---	4850	7420	1770	5010	324	241	187
31	269	---	2000	760	---	3750	---	2010	---	305	281	---
TOTAL	9998	27811	47761	28759	71610	133760	227350	127860	47898	21532	11001	6843
MEAN	323	927	1541	928	2558	4315	7578	4125	1597	695	355	228
MAX	524	2610	6210	1650	11300	16700	20400	13100	12100	2730	681	331
MIN	269	287	647	660	740	1450	3010	1770	590	305	219	172
CFSM	.13	.37	.62	.37	1.02	1.72	3.02	1.65	.64	.28	.14	.09
IN.	.15	.41	.71	.43	1.06	1.99	3.37	1.90	.71	.32	.16	.10

CAL YR 1982 TOTAL 871340 MEAN 2387 MAX 31800 MIN 269 CFSM .95 IN 12.93
WTR YR 1983 TOTAL 762183 MEAN 2088 MAX 20400 MIN 172 CFSM .83 IN 11.31

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01523000 ALMOND LAKE NEAR ALMOND, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, NY (see station for daily discharge).

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft upstream from Main Street bridge in Salamanca, 1.3 mi downstream from Great Valley Creek, and 1.6 mi upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi^2.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

REVISED RECORDS.--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917 to Sept. 30, 1964, water-stage recorder at site 7.5 mi downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft lower.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--80 years, 2,781 ft^3/s, 23.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft^3/s June 23, 1972, gage height, 24.01 ft from floodmarks; minimum daily, 79 ft^3/s Sept. 10, 11, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft^3/s Dec. 26 at 0800 hours, gage height, 10.12 ft, no other peak above base of 17,000 ft^3/s; minimum, 222 ft^3/s Sept. 13, gage height, 2.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	1430	5940	3690	580	1470	3570	8190	2820	2970	1040	684
2	451	2150	4860	3190	720	1450	3310	11500	2470	2290	901	575
3	397	1580	4090	2820	5120	1410	3960	13500	2160	1880	768	424
4	363	6760	3590	2410	6580	1390	4630	12000	2030	1590	566	331
5	339	11200	3210	2000	4720	1440	4280	9360	1970	1360	527	291
6	315	6470	3440	1980	3700	1430	3910	6970	1730	1220	634	275
7	300	3880	3230	1870	2900	1410	4010	5240	1760	1030	537	328
8	300	2780	2730	1790	2400	1420	5410	4310	1630	893	474	333
9	292	2150	2400	1520	1900	1380	5300	3960	1360	804	429	305
10	285	1750	1900	1460	1700	1570	5160	3350	1200	732	395	280
11	277	1620	1800	2050	1600	3330	5170	2810	1090	681	368	249
12	285	2130	1600	2470	1500	3330	4870	2480	1010	631	1100	231
13	270	5490	1500	1940	1400	2880	4310	2220	923	587	1040	235
14	277	4500	1400	1720	1300	2970	3730	2040	859	548	793	240
15	406	3310	1660	1680	1520	3310	4590	2120	804	511	550	232
16	548	2680	3210	1620	1400	3310	6740	2430	872	484	448	233
17	643	2280	4250	1390	1330	3140	6170	2300	1930	462	389	334
18	569	2060	3140	980	1280	3010	5500	1970	2560	449	387	320
19	508	1850	2820	880	1300	4000	4910	1830	1850	434	381	347
20	451	1650	2740	820	1280	6360	4160	2690	1870	444	354	293
21	600	1670	2670	820	1360	7310	3610	2870	2640	534	327	266
22	622	2840	2400	800	1570	10700	3220	2680	2240	505	297	486
23	746	5970	2170	780	1820	9040	2850	4770	1590	442	286	578
24	632	7670	3030	760	1870	7810	2650	6160	1280	564	274	549
25	489	6600	9000	740	1740	6120	3260	5300	1080	599	265	423
26	431	5090	16200	720	1590	4650	3230	4840	919	519	249	352
27	398	4260	10600	700	1370	4040	2910	4070	829	414	234	309
28	368	3520	8430	680	1400	4490	2710	3300	3200	363	229	278
29	348	6260	6930	660	---	5400	2570	2840	6000	346	298	258
30	336	7750	5390	620	---	4510	5550	3690	4550	362	281	244
31	338	---	4320	600	---	3910	---	3520	---	419	523	---
TOTAL	13112	119350	130650	46160	56950	117990	126250	145310	57226	25067	15344	10283
MEAN	423	3978	4215	1489	2034	3806	4208	4687	1908	809	495	343
MAX	746	11200	16200	3690	6580	10700	6740	13500	6000	2970	1100	684
MIN	270	1430	1400	600	580	1380	2570	1830	804	346	229	231
CFSM	.26	2.47	2.62	.93	1.27	2.37	2.62	2.92	1.19	.50	.31	.21
IN.	.30	2.76	3.02	1.07	1.32	2.73	2.92	3.36	1.32	.58	.35	.24

CAL YR 1982 TOTAL 1019301 MEAN 2793 MAX 16200 MIN 202 CFSM 1.74 IN 23.58
WTR YR 1983 TOTAL 863692 MEAN 2366 MAX 16200 MIN 229 CFSM 1.47 IN 19.98

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, Hydrologic Unit 05010002, on right bank 300 ft downstream from bridge on State Highway 394 at Waterboro, 0.2 mi downstream from Davis Brook, 0.4 mi upstream from Harris Brook, and 1.9 mi northeast of Kennedy.

DRAINAGE AREA.--290 mi^2 .

PERIOD OF RECORD.--September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.30 ft National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 7, 1939, nonrecording gages at site 1,300 ft upstream at various datums. Nov. 7, 1939 to Nov. 4, 1940, nonrecording gage at site 1,100 ft upstream at datum 0.79 ft higher, and Nov. 5, 1940 to May 28, 1948, nonrecording gage at site 700 ft downstream at present datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--45 years, 530 ft^3/s, 24.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,600 ft^3/s Apr. 7, 1947; maximum gage height, 12.13 ft Feb. 22, 1981; minimum discharge observed, 22 ft^3/s Aug. 18, 1940, Sept. 27, 29, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,950 ft^3/s Dec. 28 at 1600 hours, gage height, 10.15 ft, no other peak above base of 2,300 ft^3/s; minimum discharge, 49 ft^3/s Sept. 13-16, 20, 21; minimum gage height, 2.70 ft July 13, 14, 15, 16, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	564	1540	1950	220	326	873	1080	341	227	109	130
2	153	1110	1250	1420	350	321	638	1390	311	157	169	95
3	132	877	968	1100	1440	309	603	1550	279	124	136	72
4	121	1430	724	762	1620	302	656	1710	266	102	104	63
5	111	1920	620	504	1420	294	643	1620	265	93	229	61
6	105	2020	580	431	1120	284	541	1320	262	87	177	60
7	102	1960	520	416	821	279	510	967	349	81	109	67
8	102	1670	480	430	567	279	593	639	324	77	82	66
9	105	1300	440	388	474	273	529	548	262	73	81	60
10	100	967	400	386	370	264	505	495	228	70	72	57
11	99	732	380	617	340	400	505	430	204	68	72	55
12	107	1050	350	781	310	503	519	380	186	64	122	53
13	110	1530	340	600	280	472	470	339	170	62	141	50
14	111	1610	330	517	260	468	409	309	156	61	109	50
15	200	1460	370	440	250	489	514	364	138	61	87	50
16	537	1180	1100	380	280	462	706	489	169	62	75	50
17	465	918	1390	330	300	399	577	477	165	60	69	51
18	357	739	1160	300	341	353	500	391	180	60	72	51
19	264	689	818	290	389	485	496	339	165	58	70	51
20	212	592	583	290	422	1170	473	394	144	62	66	50
21	188	598	504	280	469	1380	438	395	135	69	61	52
22	173	1060	483	270	513	1740	420	399	120	68	59	90
23	158	1100	483	270	525	1770	391	685	103	64	59	438
24	145	1270	990	260	504	1560	360	589	91	64	57	768
25	133	1290	2000	250	438	1260	372	472	86	63	55	537
26	124	1130	2950	240	380	965	364	451	82	61	54	305
27	119	899	3600	240	337	809	337	458	80	59	53	200
28	113	706	3910	230	326	1280	317	391	215	58	53	157
29	110	1420	3830	230	---	1530	301	342	358	60	52	130
30	106	1640	3410	230	---	1460	579	363	333	78	51	113
31	107	---	2710	220	---	1190	---	374	---	77	88	---
TOTAL	5156	35431	39213	15052	15066	23076	15139	20150	6167	2430	2793	4032
MEAN	166	1181	1265	486	538	744	505	650	206	78.4	90.1	134
MAX	537	2020	3910	1950	1620	1770	873	1710	358	227	229	768
MIN	99	564	330	220	220	264	301	309	80	58	51	50
CFSM	.57	4.07	4.36	1.68	1.86	2.57	1.74	2.24	.71	.27	.31	.46
IN.	.66	4.54	5.03	1.93	1.93	2.96	1.94	2.58	.79	.31	.36	.52

CAL YR 1982 TOTAL 242772 MEAN 665 MAX 3910 MIN 66 CFSM 2.29 IN 31.14
WTR YR 1983 TOTAL 183705 MEAN 503 MAX 3910 MIN 50 CFSM 1.73 IN 23.56

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

LOCATION.--Lat 42°09'23", long 79°23'39", Chautauqua County, Hydrologic Unit 05010002, 6 ft east of lake shore, 30 ft south of the intersection of Pauline Avenue and Lakeside Avenue, and 950 ft southeast of the ferry landing, at Bemus Point.

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--October 1972 to September 1973; November 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 1974 at site 950 ft northwest at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi².

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.23 ft Mar. 5, 1976; minimum, 1,306.35 ft Mar. 11, 12, 13, 14, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,309.04 ft Dec. 28; minimum observed, 1,306.66 ft Mar. 6.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1308.12	1308.09	1308.17	1308.70	1307.04	1306.80	1307.94	1308.37	1308.23	1308.33	1308.08	1308.28
2	1308.11	1308.28	1308.11	1308.60	1307.05	1306.77	1307.94	1308.56	1308.22	1308.33	1308.15	1308.27
3	1308.10	1308.27	1308.05	1308.50	1307.31	1306.74	1307.97	1308.68	1308.23	1308.31	1308.14	1308.25
4	1308.09	1308.43	1308.01	1308.39	1307.43	1306.71	1307.99	1308.79	1308.25	1308.29	1308.13	1308.23
5	1308.08	1308.66	1307.97	1308.29	1307.44	1306.68	1308.00	1308.74	1308.25	1308.28	1308.28	1308.22
6	1308.08	1308.63	1307.94	1308.20	1307.42	1306.66	1308.01	1308.66	1308.30	1308.24	1308.29	1308.21
7	1308.07	1308.56	1307.89	1308.13	1307.40	1306.67	1308.03	1308.57	1308.32	1308.21	1308.27	1308.25
8	1308.08	1308.48	1307.83	1308.07	1307.38	1306.69	1308.07	1308.49	1308.31	1308.19	1308.25	1308.24
9	1308.07	1308.40	1307.77	1308.00	1307.34	1306.70	1308.08	1308.39	1308.28	1308.18	1308.26	1308.21
10	1308.06	1308.31	1307.70	1307.93	1307.30	1306.73	1308.13	1308.28	1308.26	1308.16	1308.24	1308.20
11	1308.06	1308.27	1307.65	1307.92	1307.25	1306.87	1308.18	1308.20	1308.26	1308.14	1308.26	1308.18
12	1308.05	1308.31	1307.59	1307.92	1307.20	1306.95	1308.23	1308.22	1308.26	1308.12	1308.33	1308.17
13	1308.04	1308.47	1307.53	1307.86	1307.15	1306.96	1308.23	1308.23	1308.26	1308.11	1308.34	1308.15
14	1308.04	1308.46	1307.47	1307.80	1307.11	1306.99	1308.18	1308.25	1308.26	1308.09	1308.34	1308.12
15	1308.08	1308.41	1307.44	1307.75	1307.08	1307.06	1308.28	1308.34	1308.27	1308.08	1308.33	1308.09
16	1308.09	1308.33	1307.65	1307.70	1307.05	1307.10	1308.33	1308.42	1308.36	1308.06	1308.32	1308.07
17	1308.10	1308.25	1307.76	1307.65	1307.02	1307.13	1308.30	1308.37	1308.35	1308.05	1308.31	1308.07
18	1308.09	1308.18	1307.72	1307.62	1307.00	1307.14	1308.27	1308.30	1308.32	1308.04	1308.32	1308.06
19	1308.08	1308.12	1307.68	1307.58	1306.98	1307.19	1308.24	1308.31	1308.30	1308.02	1308.31	1308.05
20	1308.07	1308.06	1307.72	1307.53	1306.97	1307.35	1308.19	1308.35	1308.30	1308.02	1308.29	1308.04
21	1308.07	1308.03	1307.76	1307.48	1306.96	1307.41	1308.15	1308.35	1308.28	1308.02	1308.27	1308.09
22	1308.05	1308.08	1307.70	1307.42	1306.96	1307.72	1308.15	1308.39	1308.25	1308.00	1308.25	1308.13
23	1308.04	1308.07	1307.67	1307.38	1306.96	1307.76	1308.15	1308.42	1308.23	1307.98	1308.25	1308.28
24	1308.02	1308.14	1307.73	1307.37	1306.95	1307.78	1308.14	1308.35	1308.21	1308.00	1308.23	1308.30
25	1308.01	1308.14	1308.18	1307.32	1306.91	1307.76	1308.12	1308.25	1308.19	1307.99	1308.21	1308.23
26	1307.99	1308.09	1308.82	1307.30	1306.88	1307.73	1308.07	1308.25	1308.16	1307.96	1308.20	1308.22
27	1307.97	1308.04	1308.89	1307.26	1306.85	1307.76	1308.03	1308.22	1308.15	1307.95	1308.19	1308.22
28	1307.95	1307.99	1308.99	1307.21	1306.81	1307.89	1308.00	1308.21	1308.36	1307.92	1308.17	1308.21
29	1307.93	1308.15	1308.97	1307.16	---	1307.94	1308.02	1308.21	1308.37	1307.97	1308.16	1308.21
30	1307.91	1308.21	1308.89	1307.11	---	1307.93	1308.17	1308.22	1308.35	1308.01	1308.15	1308.20
31	1307.92	---	1308.80	1307.09	---	1307.92	---	1308.22	---	1308.02	1308.24	---
MEAN	1308.05	1308.26	1308.00	1307.75	1307.11	1307.21	1308.12	1308.37	1308.27	1308.10	1308.24	1308.18
MAX	1308.12	1308.66	1308.99	1308.70	1307.44	1307.94	1308.33	1308.79	1308.37	1308.33	1308.34	1308.30
MIN	1307.91	1307.99	1307.44	1307.09	1306.81	1306.66	1307.94	1308.20	1308.15	1307.92	1308.08	1308.04

CAL YR 1982	MEAN	1308.01	MAX	1309.11	MIN	1306.72
WTR YR 1983	MEAN	1307.98	MAX	1308.99	MIN	1306.66

03014500 CHADAKOIN RIVER AT FALCONER, NY

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, Hydrologic Unit 05010002, on left bank 10 ft downstream from South Dow Street Bridge in Falconer, 1.8 mi upstream from mouth, and 6 mi downstream from Chautauqua Lake.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--November 1934 to current year.

REVISED RECORDS.--WSP 803: 1936(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chautauqua Lake. Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--48 years (water years 1936-83), 350 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft³/s Sept. 14, 1979, gage height, 4.93 ft; minimum, 2.7 ft³/s Nov. 20, 21, 1960, gage height, 0.15 ft; minimum daily, 3.0 ft³/s Nov. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s Dec. 28, gage height, 3.18 ft; minimum observed, 36 ft³/s July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	338	760	977	399	365	238	364	121	160	43	65
2	62	644	744	946	411	357	235	854	105	159	40	65
3	60	813	732	937	438	345	237	945	94	159	57	65
4	58	883	729	870	450	342	240	967	93	158	57	65
5	58	941	711	834	474	328	239	958	91	158	77	63
6	58	926	714	809	470	315	238	917	112	154	685	63
7	60	899	692	748	472	204	245	906	198	36	126	71
8	60	887	674	718	473	64	242	898	198	57	126	60
9	55	860	668	699	468	67	243	887	196	52	54	55
10	58	822	610	677	462	77	242	855	117	54	54	56
11	60	801	593	690	456	72	248	305	63	52	52	56
12	88	821	583	697	450	66	245	66	62	52	63	56
13	120	891	558	673	442	66	472	65	62	47	61	56
14	123	862	548	638	437	64	588	72	62	47	61	56
15	123	877	542	624	429	63	629	65	78	48	61	56
16	126	823	611	613	420	65	621	193	163	61	61	62
17	120	813	613	596	416	64	616	730	224	59	61	56
18	120	786	594	564	407	84	616	304	222	61	81	55
19	117	751	582	470	387	377	609	95	223	59	81	81
20	120	711	608	503	384	442	586	135	225	59	81	55
21	120	738	623	503	385	480	342	246	222	57	77	69
22	119	759	607	494	384	470	338	515	162	57	75	53
23	120	751	603	492	386	471	338	846	105	57	71	134
24	117	812	646	488	384	461	338	832	101	57	71	581
25	123	774	776	484	382	458	388	691	89	55	69	377
26	150	760	1050	479	381	454	489	365	78	55	69	60
27	148	744	1060	471	374	458	488	323	65	55	71	58
28	148	717	1110	463	369	474	292	169	120	54	69	56
29	148	787	1120	453	---	472	76	172	159	54	69	56
30	148	772	1090	444	---	468	72	169	160	54	69	56
31	201	---	1020	429	---	243	---	151	---	54	221	---
TOTAL	3251	23763	22571	19483	11790	8736	10790	15060	3970	2301	2913	2717
MEAN	105	792	728	628	421	282	360	486	132	74.2	94.0	90.6
MAX	201	941	1120	977	474	480	629	967	225	160	685	581
MIN	55	338	542	429	369	63	72	65	62	36	40	53

CAL YR 1982 TOTAL 144491 MEAN 396 MAX 1140 MIN 49
WTR YR 1983 TOTAL 127345 MEAN 349 MAX 1120 MIN 36

LAKES IN ALLEGHENY RIVER BASIN

03013946 Chautauqua Lake at Bemus Point, NY (see station for daily mean elevation).

04213500 CATTARAUGUS CREEK AT GOWANDA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 42°27'50", long 78°56'07", Erie County, Hydrologic Unit 04120102, on right bank 380 ft downstream from bridge on State Highways 39 and 62 at Gowanda, 4.2 mi downstream from South Branch, and 17.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--436 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area. WRD NY 1971: 1956(M). WRD NY 1974: 1940-42 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at datum 0.11 ft lower.

REMARKS.--Records good except those for winter periods, which are fair. Diurnal fluctuation at low and medium flow caused by powerplant 20 mi upstream from station.

AVERAGE DISCHARGE.--43 years (water years 1941-83), 735 ft³/s, 23.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft³/s Mar. 7, 1956, gage height, 14.14 ft; minimum, about 6 ft³/s Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft Oct. 26, 1951; minimum daily discharge, 52 ft³/s Sept. 13, 1945, Aug. 1, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,160 ft³/s Dec. 25 at 1600 hours, gage height, 7.62 ft, no other peak above base of 8,000 ft³/s; minimum, 77 ft³/s Sept. 13, gage height, 1.29 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	673	1100	760	438	527	895	2530	433	192	318	256
2	230	862	854	681	1220	503	887	2200	380	156	422	176
3	215	566	736	608	3690	473	1410	2000	337	153	288	145
4	202	5550	744	521	1710	467	1290	1400	341	145	205	121
5	199	3970	736	490	820	479	1050	1000	327	140	195	117
6	189	1520	879	480	700	444	814	860	385	142	237	114
7	189	1010	862	450	600	433	838	700	433	127	183	133
8	202	1000	666	430	500	411	938	580	327	122	167	134
9	192	806	594	422	450	395	752	490	280	118	156	111
10	186	580	496	521	400	490	760	420	260	115	125	107
11	209	929	527	1360	370	938	879	370	241	113	195	100
12	219	1770	479	1030	350	736	1000	340	230	109	629	106
13	202	3060	450	580	360	615	744	310	226	104	658	99
14	199	1280	444	520	370	681	615	300	212	100	332	98
15	964	879	524	430	380	806	938	340	199	100	210	95
16	681	704	1600	360	400	636	973	390	233	98	180	99
17	455	644	1080	300	503	547	728	340	205	118	170	133
18	351	594	573	250	527	496	736	310	301	98	160	135
19	284	521	540	210	587	1280	760	280	248	98	176	114
20	260	461	534	190	629	2160	720	330	209	132	159	114
21	260	521	560	190	775	2220	760	450	195	192	145	161
22	252	1110	521	200	744	1890	1050	900	183	170	150	223
23	237	1070	503	220	830	1040	1050	1300	173	148	162	739
24	219	1920	3060	230	736	887	791	1200	159	153	150	534
25	212	1190	6440	250	615	752	846	940	159	140	130	293
26	205	814	4380	280	515	689	830	880	159	130	130	199
27	215	712	1960	310	467	1260	712	580	137	130	142	172
28	199	696	2280	340	527	2190	580	450	222	130	125	154
29	199	3120	1330	370	---	2010	1100	406	422	173	162	142
30	199	1860	1000	410	---	1120	1680	566	256	237	148	135
31	202	---	830	496	---	955	---	503	---	173	433	---
TOTAL	8279	40392	37282	13889	20213	28530	27126	23665	7872	4256	7042	5259
MEAN	267	1346	1203	448	722	920	904	763	262	137	227	175
MAX	964	5550	6440	1360	3690	2220	1680	2530	433	237	658	739
MIN	186	461	444	190	350	395	580	280	137	98	125	95
CFSM	.61	3.09	2.76	1.03	1.66	2.11	2.07	1.75	.60	.31	.52	.40
IN.	.71	3.45	3.18	1.19	1.72	2.43	2.31	2.02	.67	.36	.60	.45

CAL YR 1982 TOTAL 274831 MEAN 753 MAX 6440 MIN 130 CFSM 1.73 IN 23.45
WTR YR 1983 TOTAL 223805 MEAN 613 MAX 6440 MIN 95 CFSM 1.41 IN 19.10

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1963-64, 1972 to current year.
CHEMICAL DATA: 1959 (e), 1963 (b), 1972 (a), 1975 (b), 1976-78 (c), 1979-80 (d), 1981-82 (c), 1983(b).
MINOR ELEMENTS DATA: 1972-74 (a), 1975 (b), 1976-77 (c), 1978-83 (b).
ORGANIC DATA: OC--1975 (b), 1976-77 (c), 1978-80 (d), 1981 (c).
NUTRIENT DATA: 1975 (b), 1976-77 (c), 1978-80 (d), 1981-82 (c), 1983(b).
BIOLOGICAL DATA:
Bacterial--1978-80 (d), 1981-82 (c), 1983(b).
Phytoplankton--1978 (b), 1979-80 (c), 1981 (b).
SEDIMENT DATA: 1964 (b), 1978-82 (c), 1983(b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1958 to September 1959, unpublished; January 1978 to September 1981.
pH: October 1958 to September 1959, unpublished.
WATER TEMPERATURES: October 1958 to September 1959, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 952 micromhos Oct. 7, 1958; minimum daily, 150 micromhos Feb. 19, 1981.
WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 19, 1978; minimum daily, freezing point on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 to SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
16...	1130	704	265	8.1	2.0	20	760	15.8	115	450
FEB										
24...	1100	736	257	8.0	2.5	30	745	12.0	90	600
JUL										
06...	1030	140	355	7.8	21.0	9.5	755	9.8	111	K12000
AUG										
17...	1015	156	369	7.7	21.0	4.5	750	9.8	112	K12000

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
16...	720	130	32	42	7.2	8.4	1.4	103	25	9.1
FEB										
24...	3100	120	27	37	6.8	8.1	1.3	94	24	10
JUL										
06...	K8	170	28	52	10	9.0	1.8	143	28	14
AUG										
17...	210	160	34	47	9.8	16	1.8	124	31	23

K results based on colony count outside the ideal range (non-ideal colony count).

04213500 - CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 16...	<.10	5.2	185	160	.87	.140	.30	.030	.010	.010
FEB 24...	<.10	4.1	158	148	1.1	.120	.40	.050	.030	.020
JUL 06...	.20	3.5	247	205	.77	.040	.30	.020	.010	<.010
AUG 17...	<.10	1.5	224	205	.25	.320	.60	.050	<.010	<.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 16...	30	1	57	1	1	<1	3	--	29	--
FEB 24...	60	1	49	<1	2	<1	<3	3	20	6
JUL 06...	<10	1	97	<1	<1	<1	<3	3	12	2
AUG 17...	50	1	85	<1	<1	<1	<3	4	13	5

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 16...	8	10	.5	10	--	<1	2	71	6.0	6
FEB 24...	<4	6	<.1	<10	3	<1	<1	67	<6.0	6
JUL 06...	5	5	<.1	<10	1	<1	<1	100	<6.0	5
AUG 17...	<4	5	.1	<10	1	<1	<1	96	<6.0	17

04213500 - CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV								
16...	1135	25	1.0	1.0	265	8.1	2.0	15.3
16...	1140	50	1.0	1.0	265	8.1	2.0	15.2
16...	1145	75	1.0	1.0	264	8.1	1.5	15.8
16...	1150	100	1.0	1.0	261	8.1	1.5	16.1
16...	1155	125	1.0	1.0	260	7.6	2.5	16.5
FEB								
24...	1105	30	1.0	1.0	258	8.0	2.5	11.9
24...	1110	50	1.0	1.0	258	8.0	2.5	11.9
24...	1115	70	1.0	1.0	258	8.0	2.5	12.0
24...	1120	90	1.0	1.0	257	8.0	2.5	11.9
24...	1125	110	1.0	1.0	256	8.0	2.5	12.0
24...	1130	130	1.0	1.0	256	7.9	2.5	12.3
JUL								
06...	1035	25	1.0	1.0	355	7.9	21.0	9.8
06...	1040	50	1.0	1.0	355	7.8	21.0	9.7
06...	1045	75	1.0	1.0	355	7.8	20.5	9.5
06...	1050	100	1.0	1.0	355	7.8	20.5	9.7
06...	1055	125	1.0	1.0	354	7.8	21.0	10.1
AUG								
17...	1020	25	1.0	1.0	366	7.7	21.0	9.8
17...	1025	50	1.0	1.0	369	7.7	21.0	9.8
17...	1030	75	1.0	1.0	369	7.7	21.0	9.8
17...	1035	100	1.0	1.0	369	7.8	21.0	9.9
17...	1040	125	1.0	1.0	370	7.7	21.0	10.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV				
16...	1130	704	33	63
FEB				
24...	1100	736	41	81
JUL				
06...	1030	140	27	10
AUG				
17...	1015	156	10	4.2

04214500 BUFFALO CREEK AT GARDENVILLE, NY

LOCATION.--Lat 42°51'17", long 78°45'19", Erie County, Hydrologic Unit 04120103, on left back 300 ft downstream from bridge on Union Road in Gardenville, 2 mi upstream from Cayuga Creek, and 10.1 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1337: 1939-52. WSP 1912; WDR NY-82-3: Drainage area. WRD NY-78-1: 1939-1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 603.65 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft downstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--45 years, 197 ft^3/s, 18.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft^3/s Mar. 1, 1955, Mar. 7, 1956, from rating curve extended above 3,200 ft^3/s on basis of slope-area measurement at gage height 7.07 ft; maximum gage height, 14.34 ft Mar. 21, 1978 (ice jam); minimum discharge, 0.2 ft^3/s Sept. 1, 1964; minimum gage height, 0.60 ft July 20, 21, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,060 ft^3/s Nov. 4 at 1330 hours, gage height, 5.05 ft, no peek above base of 3,750 ft^3/s; maximum gage height, 5.48 ft Feb. 2 at 2130 hours (ice jam); minimum discharge, 8.6 ft^3/s July 20, 21, gage height, 0.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	455	368	170	40	98	216	598	78	31	54	26
2	29	870	244	150	38	94	213	1050	66	26	68	19
3	26	251	203	120	200	98	304	1010	57	22	47	15
4	27	2230	254	100	80	93	288	708	57	21	29	12
5	24	1260	230	98	62	93	212	324	61	22	27	11
6	22	426	240	98	50	91	149	225	168	17	95	12
7	23	436	200	94	45	86	194	161	262	15	42	22
8	32	702	140	94	40	82	251	168	103	15	26	20
9	34	372	100	94	39	78	162	265	64	15	23	16
10	29	197	70	96	37	91	212	151	53	14	20	13
11	30	199	70	200	37	280	279	113	47	13	38	11
12	34	753	72	160	37	232	327	98	41	12	385	10
13	34	1060	92	110	56	161	199	88	37	11	158	10
14	35	288	100	80	80	182	140	82	36	11	61	9.5
15	324	203	120	50	110	175	251	93	34	11	36	9.5
16	329	158	780	42	120	126	261	178	47	10	26	11
17	100	151	370	40	180	129	160	121	50	10	22	12
18	63	141	120	38	190	91	141	88	36	10	20	20
19	47	123	110	38	180	390	178	84	31	9.5	18	24
20	40	105	110	38	170	589	176	115	28	9.0	17	18
21	36	126	110	39	170	320	212	95	27	12	14	37
22	38	300	110	39	170	385	314	86	25	36	13	54
23	32	251	130	39	160	180	193	178	22	27	15	132
24	31	928	1300	41	192	130	136	121	21	17	15	151
25	30	399	1550	38	148	130	157	86	20	13	14	70
26	28	225	1480	37	100	150	229	98	18	12	12	41
27	27	188	428	37	96	403	162	103	21	11	12	30
28	26	150	779	38	90	1130	120	78	74	9.5	13	25
29	26	1100	372	41	---	836	114	68	123	18	13	22
30	26	842	230	47	---	318	278	91	48	57	14	21
31	30	---	190	44	---	252	---	88	---	44	18	---
TOTAL	1646	14889	10672	2350	2917	7493	6228	6812	1755	561.0	1365	884.0
MEAN	53.1	496	344	75.8	104	242	208	220	58.5	18.1	44.0	29.5
MAX	329	2230	1550	200	200	1130	327	1050	262	57	385	151
MIN	22	105	70	37	37	78	114	68	18	9.0	12	9.5
CFSM	.37	3.49	2.42	.53	.73	1.70	1.47	1.55	.41	.13	.31	.21
IN.	.43	3.90	2.80	.62	.76	1.96	1.63	1.78	.46	.15	.36	.23

CAL YR 1982 TOTAL 76377.0 MEAN 209 MAX 2700 MIN 15 CFSM 1.47 IN 20.01
WTR YR 1983 TOTAL 57572.0 MEAN 158 MAX 2230 MIN 9.0 CFSM 1.11 IN 15.08

04215000 CAYUGA CREEK NEAR LANCASTER, NY

LOCATION.--Lat 42°53'24", long 78°38'43", Erie County, Hydrologic Unit 04120103, on right bank 150 ft upstream from low dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, 2 mi southeast of Lancaster, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--96.4 mi^2.

PERIOD OF RECORD.--September 1938 to September 1968. October 1971 to April 1974 (peak discharges only). May 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.02 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Since August 1962, undetermined amount of fl diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow.

AVERAGE DISCHARGE.--39 years (water years 1939-68, 1975-83) 129 ft^3/s, 18.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft^3/s Sept. 14, 1979, gage height, 10.48 ft; maximum gage height, 12.58 ft Mar. 30, 1960 (ice jam); practically no flow part of Aug. 8, 9, 1939, when stoplogs were installed in the dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft^3/s Feb. 2 at 2230 hours, gage height, 6.64 ft, no peak above base of 2,800 ft^3/s; minimum, 1.3 ft^3/s July 27, 28, 29, gage height, 2.54 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	439	273	110	172	103	149	395	35	10	12	5.1
2	9.6	676	191	96	721	82	147	730	30	8.3	18	3.8
3	8.5	189	165	80	1280	69	221	895	24	6.7	7.9	3.1
4	7.7	1450	224	68	322	65	192	576	24	5.9	5.4	2.6
5	7.2	829	209	64	200	63	140	242	27	6.4	4.7	2.5
6	6.8	345	227	60	160	59	104	181	127	5.1	4.2	2.3
7	8.3	347	179	58	120	56	149	138	208	4.4	3.6	6.4
8	12	394	120	58	96	53	167	149	69	4.0	3.1	4.7
9	14	206	88	62	74	50	115	201	35	3.6	3.6	3.2
10	11	147	68	64	64	66	167	123	24	3.6	3.8	2.8
11	12	161	62	140	60	237	198	88	19	4.4	8.3	2.1
12	18	578	58	233	56	185	300	71	16	4.7	164	2.2
13	15	693	54	120	50	137	162	59	13	4.2	56	2.0
14	13	218	62	90	50	147	113	51	11	4.0	19	2.0
15	156	168	99	76	62	144	172	58	10	3.1	10	2.1
16	134	140	607	64	86	90	170	115	27	2.2	6.7	2.2
17	49	134	283	52	120	67	111	72	17	1.7	5.6	3.1
18	30	124	110	46	170	60	97	50	13	1.7	5.6	3.2
19	21	102	96	46	150	315	125	47	10	1.5	4.7	6.2
20	17	83	90	46	140	413	119	92	8.9	1.5	4.0	5.1
21	15	97	88	46	130	211	164	58	7.9	1.5	3.2	7.6
22	13	216	88	46	130	235	182	47	6.7	2.0	3.1	18
23	12	162	98	46	150	172	107	92	6.2	2.5	3.8	11
24	11	620	1000	46	130	154	79	57	5.4	2.5	3.6	17
25	11	273	1020	46	110	123	127	42	5.1	2.0	3.2	11
26	10	176	873	50	87	123	159	48	4.9	1.6	3.4	7.3
27	10	153	287	47	75	401	113	44	5.4	1.5	2.8	5.9
28	10	144	492	45	98	865	75	34	37	1.4	6.2	4.9
29	9.5	969	245	50	---	507	71	30	48	2.6	3.2	4.4
30	9.1	643	177	66	---	205	192	33	16	11	3.1	4.0
31	11	---	140	88	---	170	---	32	---	11	4.4	---
TOTAL	683.7	10876	7773	2209	5063	5627	4387	4850	890.5	126.6	390.2	157.8
MEAN	22.1	363	251	71.3	181	182	146	156	29.7	4.08	12.6	5.26
MAX	156	1450	1020	233	1280	865	300	895	208	11	164	18
MIN	6.8	83	54	45	50	50	71	30	4.9	1.4	2.8	2.0
CFSM	.23	3.77	2.60	.74	1.88	1.89	1.52	1.62	.31	.04	.13	.06
IN.	.26	4.20	3.00	.85	1.95	2.17	1.69	1.87	.34	.05	.15	.06

CAL YR 1982 TOTAL 51092.2 MEAN 140 MAX 3600 MIN 4.7 CFSM 1.45 IN 19.72
WTR YR 1983 TOTAL 43033.8 MEAN 118 MAX 1450 MIN 1.4 CFSM 1.22 IN 16.61

04215500 CAZENOVIA CREEK AT EBENEZER, NY

LOCATION.--Lat 42°49'47", long 78°46'31", Erie County, Hydrologic Unit 04120103, on right bank 30 ft upstream from bridge on Ridge Road in Ebenezer, 4.0 mi upstream from mouth, and 5 mi southeast of Buffalo.

DRAINAGE AREA.--135 mi².

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1973: 1972 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.86 ft National Geodetic Vertical Datum of 1929. Prior to Apr. 4, 1955, at datum 2.00 ft higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 mi downstream at different datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record July 28 to Sept. 8, which are poor.

AVERAGE DISCHARGE.--43 years (water years 1941-83), 228 ft³/s, 22.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s Mar. 1, 1955, gage height, 15.82 ft present datum, from rating curve extended above 7,700 ft³/s; minimum, 2.6 ft³/s Nov. 7, 1953; minimum gage height, 1.87 ft June 28, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft³/s Dec. 25 at 1530 hours, gage height, 6.98 ft, no other peak above base of 4,000 ft³/s; maximum gage height, 7.18 ft Feb. 2 at 1700 hours (ice jam); minimum discharge, 7.8 ft³/s July 28, gage height, 1.89 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	648	391	160	40	114	233	737	83	31	70	28
2	34	1030	249	140	39	99	238	1180	71	25	68	22
3	31	295	190	130	200	90	330	1110	58	22	50	18
4	28	2640	265	110	80	85	319	831	60	23	35	15
5	26	1390	238	100	62	88	228	381	62	26	30	14
6	25	511	270	98	50	85	160	249	270	19	110	20
7	25	506	223	92	45	80	228	172	349	16	60	27
8	50	993	140	90	40	75	285	223	124	15	40	30
9	45	571	120	90	39	68	168	300	73	15	25	21
10	33	285	250	98	37	80	218	156	56	15	24	16
11	34	349	200	190	37	319	259	120	50	14	150	14
12	39	1300	160	150	37	190	280	105	45	14	540	12
13	37	1170	130	110	56	138	172	93	42	14	230	12
14	47	367	300	80	70	145	130	85	39	13	100	12
15	672	270	800	50	100	168	290	117	39	12	50	12
16	344	203	1190	42	110	114	275	265	37	12	35	15
17	114	194	471	35	180	90	164	127	40	11	24	16
18	73	181	150	34	190	85	156	96	37	11	22	33
19	56	156	130	34	180	522	177	90	43	11	20	25
20	48	134	120	34	170	642	177	138	39	11	19	28
21	42	213	120	35	170	452	203	102	34	43	17	64
22	42	490	120	38	170	516	309	90	31	40	15	114
23	37	309	120	37	190	283	243	275	29	20	18	606
24	34	1140	1500	39	181	160	156	134	26	14	17	335
25	31	425	2160	38	134	120	185	93	25	12	16	105
26	30	243	1870	38	111	150	238	108	23	12	15	56
27	29	199	506	38	88	533	152	99	26	9.8	14	39
28	28	208	1040	39	111	1110	127	75	108	9.8	15	30
29	26	1590	410	41	---	831	120	68	114	64	16	25
30	26	938	250	47	---	335	395	90	45	58	18	20
31	42	---	200	44	---	275	---	85	---	44	29	---
TOTAL	2170	18948	14283	2301	2917	8042	6615	7794	2078	656.6	1892	1784
MEAN	70.0	632	461	74.2	104	259	221	251	69.3	21.2	61.0	59.5
MAX	672	2640	2160	190	200	1110	395	1180	349	64	540	606
MIN	25	134	120	34	37	68	120	68	23	9.8	14	12
CFSM	.52	4.68	3.42	.55	.77	1.92	1.64	1.86	.51	.16	.45	.44
IN.	.60	5.22	3.94	.63	.80	2.22	1.82	2.15	.57	.18	.52	.49

CAL YR 1982 TOTAL 94750.0 MEAN 260 MAX 3100 MIN 16 CFSM 1.93 IN 26.11
WTR YR 1983 TOTAL 69480.6 MEAN 190 MAX 2640 MIN 9.8 CFSM 1.41 IN 19.15

04215900 LAKE ERIE AT BUFFALO, NY

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, Hydrologic Unit 04120200, near outer end of Buffalo River South Pier, at Buffalo.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--January 1860 to current year. Records prior to October 1960 in files of Lake Survey Center.

REVISED RECORDS.--WDR NY-75-1: 1974.

GAGE.--Water-stage recorder. Elevations are in feet International Great Lakes Datum (1955). Prior to Feb. 5, 1899, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 579.09 ft Nov. 3, 1955; minimum, 564.17 ft Mar. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 576.01 ft Dec. 28; minimum elevation, 567.93 ft Mar. 21.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.31	570.84	571.12	572.37	570.94	571.25	571.30	571.77	572.55	572.65	572.88	572.15
2	570.91	570.97	571.06	571.73	571.21	571.35	570.89	572.41	572.43	572.58	572.65	572.16
3	571.31	571.11	571.22	571.78	572.20	571.21	571.56	572.30	572.26	572.57	572.53	572.18
4	571.01	571.30	571.17	571.49	571.99	571.16	571.99	572.67	572.46	572.75	572.70	572.23
5	571.13	572.76	571.09	571.78	571.40	570.77	571.59	572.66	572.45	572.71	572.56	572.28
6	571.09	571.98	571.94	571.47	571.19	571.13	571.37	572.30	572.37	572.52	572.61	572.59
7	571.31	571.45	571.73	572.90	571.46	571.14	571.75	572.48	572.65	572.59	572.61	572.50
8	571.20	571.41	571.11	571.44	571.65	571.26	571.61	572.45	572.39	572.74	572.92	572.18
9	570.54	570.81	571.09	571.25	571.16	571.41	570.86	572.54	572.34	572.56	572.48	572.25
10	570.85	570.55	571.99	571.43	570.53	571.30	571.81	572.68	572.45	572.44	572.33	572.43
11	571.31	571.22	571.33	572.38	570.47	571.30	572.02	572.40	572.41	572.57	572.09	572.28
12	571.33	572.34	571.21	571.83	571.23	571.46	571.81	572.28	572.43	572.63	572.25	571.88
13	571.29	571.38	571.64	571.60	571.31	571.50	571.64	572.23	572.39	572.58	572.31	571.69
14	572.18	571.24	571.71	571.39	571.35	571.39	571.81	572.34	572.36	572.54	572.39	571.88
15	571.77	571.50	571.19	571.49	571.30	571.48	572.24	572.48	572.43	572.68	572.40	571.71
16	571.49	571.28	571.37	571.75	571.16	571.18	572.08	572.25	572.38	572.70	572.37	572.17
17	571.05	570.84	570.97	571.69	571.62	571.15	571.90	572.30	572.42	572.60	572.45	572.24
18	571.08	570.77	571.21	571.66	571.25	570.91	572.16	572.14	572.38	572.59	572.49	572.07
19	571.04	570.76	571.26	571.36	571.18	571.82	572.06	572.34	572.28	572.50	572.48	571.94
20	572.39	570.88	572.01	571.04	571.18	571.55	572.40	572.53	572.29	572.50	572.62	572.04
21	571.32	571.06	571.73	570.68	571.30	570.81	572.40	572.36	572.32	572.59	572.18	572.29
22	570.84	570.48	571.31	571.06	571.17	572.59	571.93	572.35	572.28	572.38	572.59	572.64
23	570.82	571.01	571.29	571.37	571.42	571.92	571.80	572.68	572.42	572.44	572.15	572.21
24	570.68	571.51	571.34	572.04	571.33	571.39	571.67	572.46	572.41	572.53	572.01	571.83
25	570.72	572.06	571.59	572.23	571.15	571.24	572.09	572.56	572.32	572.40	572.17	571.86
26	570.77	571.55	571.73	571.34	571.36	571.01	572.04	572.60	572.43	572.39	572.27	571.94
27	570.74	571.00	571.30	571.24	571.33	571.36	572.01	572.42	572.30	572.42	572.30	571.76
28	570.74	570.93	572.89	571.25	571.25	571.71	572.06	572.36	571.75	572.42	572.25	571.60
29	570.97	572.01	572.48	571.27	---	571.47	571.88	572.38	572.03	572.76	572.29	571.57
30	570.89	571.24	572.04	571.81	---	571.32	572.10	572.55	572.45	572.44	572.37	571.41
31	570.81	---	571.78	571.98	---	571.32	---	572.56	---	572.65	572.28	---
MEAN	571.13	571.27	571.51	571.62	571.29	571.35	571.83	572.41	572.36	572.56	572.42	572.07
MAX	572.39	572.76	572.89	572.90	572.20	572.59	572.40	572.68	572.65	572.76	572.92	572.64
MIN	570.54	570.48	570.97	570.68	570.47	570.77	570.86	571.77	571.75	572.38	572.01	571.41

CAL YR 1982 MEAN 571.65 MAX 574.54 MIN 569.80
WTR YR 1983 MEAN 571.82 MAX 572.92 MIN 570.47

04216000 NIAGARA RIVER AT BUFFALO, NY

LOCATION.--Lat 42°52'40", long 78°55'00", Erie County, Hydrologic Unit 04120200, at head of Niagara River at Buffalo, and 41.7 mi upstream from mouth.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharges only published in WSP 1912), October 1960 to current year. Records of January 1926 to September 1960 daily discharges available in files of U.S. Department of Commerce and U.S. Geological Survey.

REVISED RECORDS.--WSP 1912: 1862(M), 1955 (M), 1936 (M), WDR NY-77-1: Drainage area.

GAGE.--Discharge determined from several powerplants at Niagara Falls and discharge over the falls. Discharge before 1926 determined from records of Corps of Engineers gages at Buffalo and Cleveland.

REMARKS.--Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900, and from Lake Erie by Welland and New York State Canals before 1918. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943. Figures of monthly mean discharge for 1860 to 1960 and daily discharge for 1961 to 1965, published in WSP 1912, are the official records of the U.S. Lake Survey, and have been coordinated with and concurred by the counterpart Canadian agencies, as have been the extremes for period of record through December 1976 and records October 1977 to current year.

COOPERATION.--Records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

AVERAGE DISCHARGE.--123 years, 204,000 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 299,000 ft³/s Nov. 17, 1955; minimum daily, 90,000 ft³/s Jan. 13, 1964. Maximum monthly mean discharge, 264,700 ft³/s May 1974; minimum monthly mean, 116,200 ft³/s February 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 256,000 ft³/s Dec. 29; minimum daily, 186,000 ft³/s Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213000	206000	214000	238000	214000	213000	219000	228000	240000	232000	246000	231000
2	203000	209000	214000	228000	212000	214000	204000	242000	236000	234000	241000	232000
3	211000	211000	216000	226000	233000	213000	221000	245000	233000	231000	241000	232000
4	206000	215000	215000	221000	240000	211000	228000	254000	235000	234000	242000	233000
5	206000	244000	209000	226000	222000	202000	224000	252000	236000	236000	240000	234000
6	209000	242000	230000	221000	216000	209000	216000	241000	234000	230000	241000	239000
7	210000	223000	229000	244000	218000	211000	223000	244000	239000	231000	242000	242000
8	211000	223000	214000	226000	224000	215000	223000	242000	234000	236000	246000	231000
9	199000	206000	211000	217000	213000	215000	206000	242000	231000	231000	240000	235000
10	198000	199000	230000	217000	202000	215000	227000	247000	234000	232000	236000	238000
11	210000	216000	220000	235000	186000	212000	232000	240000	233000	231000	233000	235000
12	214000	234000	212000	231000	189000	216000	229000	238000	234000	234000	228000	226000
13	210000	227000	221000	224000	218000	220000	223000	235000	230000	233000	236000	222000
14	223000	213000	229000	218000	216000	216000	227000	238000	229000	233000	237000	224000
15	230000	223000	214000	222000	215000	219000	236000	243000	230000	236000	236000	222000
16	216000	216000	219000	226000	212000	211000	234000	235000	230000	238000	237000	229000
17	207000	209000	213000	223000	223000	211000	227000	236000	229000	235000	238000	235000
18	207000	203000	214000	224000	215000	206000	234000	234000	228000	235000	239000	230000
19	206000	204000	218000	217000	216000	224000	230000	236000	227000	233000	238000	230000
20	224000	207000	229000	211000	213000	230000	237000	244000	223000	235000	243000	227000
21	225000	214000	228000	203000	216000	203000	241000	238000	225000	236000	234000	235000
22	202000	201000	218000	209000	214000	241000	228000	237000	224000	231000	239000	240000
23	202000	209000	215000	218000	218000	231000	226000	244000	227000	234000	232000	238000
24	200000	223000	221000	228000	217000	218000	221000	242000	226000	236000	228000	225000
25	199000	238000	227000	237000	212000	213000	230000	240000	224000	231000	230000	225000
26	202000	226000	236000	218000	218000	210000	230000	242000	227000	232000	234000	229000
27	201000	212000	223000	216000	220000	214000	231000	238000	224000	232000	235000	224000
28	201000	210000	241000	215000	214000	226000	229000	236000	210000	233000	234000	220000
29	205000	233000	256000	217000	---	224000	229000	235000	219000	241000	234000	219000
30	206000	221000	237000	221000	---	218000	230000	240000	226000	239000	238000	217000
31	204000	---	226000	233000	---	216000	---	240000	---	240000	234000	---
TOTAL	6460000	6517000	6899000	6910000	6026000	6697000	6795000	7448000	6877000	7255000	7352000	6899000
MEAN	208400	217200	222500	222900	215200	216000	226500	240300	229200	234000	237200	230000
MAX	230000	244000	256000	244000	240000	241000	241000	254000	240000	241000	246000	242000
MIN	198000	199000	209000	203000	186000	202000	204000	228000	210000	230000	228000	217000

CAL YR 1982 TOTAL 80663000 MEAN 221000 MAX 284000 MIN 185000
WTR YR 1983 TOTAL 82135000 MEAN 225000 MAX 256000 MIN 186000

04216200 SCAJAQUADA CREEK AT BUFFALO, NY

LOCATION.--Lat 42°54'41", long 78°47'45", Erie County, Hydrologic Unit 04120103, on right bank 58 ft upstream from point where stream goes underground in concrete-lined tunnel, 86 ft upstream from Pine Ridge Road, 0.2 mi east of boundary line of city of Buffalo, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--15.4 mi^2.

PERIOD OF RECORD.--Feburary 1957 to current year.

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 626.26 ft National Geodetic Vertical Datum of 1929 (city of Buffalo bench mark).

REMARKS.--Records good. Prior to July 1982 discharge included flow diverted from Lake Erie and Niagara River as sewage-plant effluent entering basin upstream from station.

COOPERATION.--Town of Cheektowaga maintains records of sewage-plant discharge.

AVERAGE DISCHARGE.--26 years, 34.7 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft^3/s Aug. 7, 1963, gage height, 14.38 ft; minimum, 1.2 ft^3/s Sept. 12, 13, 1982, gage height, 1.36 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 564 ft^3/s July 30 at 0830 hours, gage height, 4.92 ft, no peak above base of 600 ft^3/s; minimum discharge, 1.3 ft^3/s July 24; minimum gage height, 1.38 ft Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	102	19	6.0	12	5.0	8.5	62	5.7	2.7	19	3.9
2	2.9	128	13	5.2	135	4.9	6.5	95	3.9	2.2	4.8	2.9
3	2.4	30	11	4.5	104	4.5	17	144	3.6	2.0	3.1	2.4
4	2.4	301	27	4.1	27	4.4	20	68	7.7	1.8	5.1	2.2
5	2.7	76	18	3.7	15	5.3	11	31	9.0	8.5	32	2.4
6	2.9	76	44	4.2	8.5	8.0	7.2	14	53	2.7	9.4	2.7
7	6.5	142	16	11	3.6	9.0	38	8.5	17	2.2	3.1	84
8	24	186	9.3	8.2	3.2	6.3	15	13	6.8	2.0	24	4.2
9	3.9	46	8.7	6.7	3.8	5.5	10	8.5	4.5	2.0	31	3.1
10	2.7	18	6.4	9.1	5.5	15	64	6.1	3.9	1.8	4.2	2.9
11	18	62	5.2	33	9.0	36	68	5.4	3.4	1.8	77	2.4
12	11	161	4.5	30	3.6	16	41	4.8	3.4	2.2	87	2.4
13	6.8	61	3.8	11	2.9	8.6	15	4.5	3.4	2.4	8.1	2.4
14	6.5	19	4.3	7.4	4.2	6.7	10	4.8	3.6	2.2	3.9	2.2
15	5.7	13	12	6.2	5.7	5.5	64	15	3.6	2.2	2.9	2.2
16	3.4	9.3	168	5.2	9.9	4.5	18	9.4	3.9	2.4	2.9	11
17	2.7	7.8	30	4.3	17	4.2	9.4	4.8	11	2.0	2.7	5.7
18	2.7	6.7	12	3.6	16	11	8.5	4.2	6.1	3.1	4.2	10
19	2.9	5.7	7.8	3.1	11	165	7.7	29	3.4	2.7	2.9	7.7
20	3.4	4.9	10	2.7	9.2	44	9.4	13	2.9	2.7	2.4	6.1
21	9.9	52	13	2.6	9.1	38	9.0	5.1	2.9	2.4	2.2	58
22	3.1	32	11	2.6	9.1	41	6.5	13	2.9	2.2	3.6	7.7
23	2.7	22	19	2.4	27	23	5.1	7.7	2.7	1.7	3.1	11
24	2.2	91	197	2.3	16	17	4.5	4.5	2.4	1.5	2.4	3.6
25	2.4	23	177	2.4	11	15	4.5	4.2	2.2	1.5	2.4	2.7
26	2.4	17	88	2.7	6.8	17	4.5	7.2	1.8	1.7	2.7	2.9
27	2.7	17	31	3.1	5.0	112	4.2	3.6	16	1.8	6.1	2.7
28	2.9	33	52	3.6	4.8	67	4.2	3.1	82	1.8	18	2.4
29	2.7	93	20	4.5	---	27	4.2	5.4	6.8	34	7.2	2.4
30	2.4	36	10	5.2	---	12	37	19	3.4	108	19	2.2
31	13	---	6.8	22	---	8.1	---	6.8	---	9.4	9.0	---
TOTAL	163.5	1871.4	1054.8	222.6	494.9	746.5	531.9	624.6	282.9	217.6	405.4	258.4
MEAN	5.27	62.4	34.0	7.18	17.7	24.1	17.7	20.1	9.43	7.02	13.1	8.61
MAX	24	301	197	33	135	165	68	144	82	108	87	84
MIN	2.2	4.9	3.8	2.3	2.9	4.2	4.2	3.1	1.8	1.5	2.2	2.2
CFSM	.34	4.05	2.21	.47	1.15	1.57	1.15	1.31	.61	.46	.85	.56
IN.	.39	4.52	2.55	.54	1.20	1.80	1.28	1.51	.68	.53	.98	.62

CAL YR 1982 TOTAL 11277.5 MEAN 30.9 MAX 396 MIN 2.0 CFSM 2.01 IN 27.24
WTR YR 1983 TOTAL 6874.5 MEAN 18.8 MAX 301 MIN 1.5 CFSM 1.22 IN 16.60

04216418 TONAWANDA CREEK AT ATTICA, NY

LOCATION.--Lat 42°51'50", long 78°17'02", Wyoming County, Hydrologic Unit 04120104, on right bank behind Village Hall and fire station, 150 ft downstream from bridge on State Highway 238 (Main Street) at Attica, and 0.4 mi upstream from Tannery Creek.

DRAINAGE AREA.--76.9 mi².

PERIOD OF RECORD.--October 1977 to current year.

REVISED RECORDS.--WDR NY-79-1: 1978 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 954.63 ft National Geodetic Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--6 years, 115 ft³/s, 20.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,690 ft³/s Sept. 14, 1979, gage height, 9.10 ft; maximum gage height, 12.40 ft Feb. 18, 1979 (backwater from ice); minimum discharge, 5.4 ft³/s July 27-29, 1983, gage height, 3.34 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 6,000 ft³/s June 23, 1972, gage height, about 12.0 ft present site and datum, from information supplied by Village of Attica.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 4	0930	*1,430	*5.97	Feb. 3	0300	1,210	5.70

Minimum discharge, 5.4 ft³/s July 27-29, gage height, 3.34 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	186	174	121	128	74	154	288	51	17	26	14
2	13	302	128	107	388	68	166	502	44	15	32	10
3	11	107	107	94	762	66	367	388	38	14	17	8.2
4	11	1130	117	71	246	63	233	372	36	13	11	7.2
5	11	420	114	74	150	63	154	219	36	10	17	7.2
6	12	182	186	85	114	63	114	170	88	10	15	10
7	10	186	131	85	114	63	135	131	94	10	10	11
8	11	246	91	88	98	51	142	139	53	10	9.2	11
9	14	139	77	66	94	48	101	142	40	10	11	8.2
10	13	88	58	88	66	53	124	104	34	10	10	7.2
11	13	91	71	246	60	110	139	80	32	10	32	7.2
12	14	336	56	170	54	101	170	71	30	9.2	367	7.2
13	14	321	63	94	49	95	114	63	26	8.2	77	7.2
14	14	135	80	104	56	104	88	58	25	8.2	34	7.2
15	170	101	85	101	71	146	154	63	26	8.2	23	7.2
16	85	82	278	88	74	94	131	110	34	8.2	18	7.2
17	40	77	146	74	94	80	94	71	26	6.3	15	9.2
18	28	71	77	66	91	68	85	56	25	6.3	14	14
19	23	66	74	64	98	207	91	48	25	6.3	13	13
20	21	58	68	62	107	228	94	61	21	6.3	11	28
21	18	58	68	68	146	135	135	53	21	6.3	10	21
22	18	114	71	78	139	131	178	51	18	20	10	30
23	18	101	71	140	142	104	146	88	15	10	10	36
24	17	357	584	265	104	94	124	58	15	10	10	38
25	15	150	652	224	85	80	211	48	14	9.2	9.2	23
26	15	104	554	186	63	77	224	80	14	9.2	9.2	20
27	15	88	260	146	66	166	178	58	14	7.2	8.2	17
28	15	107	367	139	74	497	117	46	68	5.4	8.2	15
29	17	497	194	146	---	383	104	42	48	8.2	8.2	15
30	15	362	154	150	---	190	211	74	23	15	8.2	14
31	15	---	124	170	---	154	---	56	---	15	14	---
TOTAL	721	6262	5280	3660	3733	3856	4478	3790	1034	311.7	867.4	430.4
MEAN	23.3	209	170	118	133	124	149	122	34.5	10.1	28.0	14.3
MAX	170	1130	652	265	762	497	367	502	94	20	367	38
MIN	10	58	56	62	49	48	85	42	14	5.4	8.2	7.2
CFSM	.30	2.72	2.21	1.53	1.73	1.61	1.94	1.59	.45	.13	.36	.19
IN.	.35	3.03	2.55	1.77	1.81	1.87	2.17	1.83	.50	.15	.42	.21

CAL YR 1982 TOTAL 38456.0 MEAN 105 MAX 1130 MIN 10 CFSM 1.37 IN 18.60
WTR YR 1983 TOTAL 34423.5 MEAN 94.3 MAX 1130 MIN 5.4 CFSM 1.23 IN 16.65

04216500 LITTLE TONAWANDA CREEK AT LINDEN, NY

LOCATION.--Lat 42°52'37", long 78°09'48", Genesee County, Hydrologic Unit 04120104, on right bank at upstream side of bridge on County Highway 13A (Depot Road) in Linden and 9.3 mi upstream from mouth.

DRAINAGE AREA.--22.1 mi^2.

PERIOD OF RECORD.--July 1912 to November 1919, April 1920 to September 1968, October 1977 to current year.

GAGE.--Water-stage recorder. Concrete control since Oct. 15, 1930. Datum of gage is 1,081.62 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1943, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--61 years (water years 1913-19, 1921-68, 1978-83), 27.1 ft^3/s, 16.65 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s Mar. 7, 1956, gage height, 16.04 ft, from high-water mark; minimum, 0.08 ft^3/s Aug. 3, 4, 1955; minimum gage height, -0.14 ft Jan. 17, 1966 (siphonic action).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft^3/s Nov. 4 at 1845 hours, gage height, 4.30 ft, no peak above base of 530 ft^3/s; minimum, 0.36 ft^3/s July 17, gage height, 0.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	33	49	32	22	22	51	92	15	3.3	1.9	1.1
2	1.5	70	35	29	76	20	51	172	12	3.1	1.2	1.1
3	1.4	27	29	24	212	19	120	173	12	3.1	.91	1.1
4	1.4	250	33	20	74	19	71	119	10	2.8	.91	.98
5	1.4	165	30	19	43	24	46	68	11	2.6	.98	.98
6	1.4	56	52	20	31	19	36	50	24	2.4	1.1	.98
7	1.5	48	36	23	30	18	46	40	23	2.2	.77	.98
8	1.5	51	27	21	26	16	44	46	13	2.1	.70	.91
9	1.3	33	24	16	23	15	34	45	10	2.1	.98	.98
10	1.4	24	19	20	20	23	60	33	8.1	2.0	.70	.91
11	1.5	23	21	54	17	44	53	28	6.8	3.0	3.4	.83
12	1.4	55	17	40	15	36	60	25	5.6	2.5	60	.63
13	1.8	99	17	23	15	31	40	21	4.8	2.2	14	.77
14	2.1	40	16	22	16	39	31	19	4.3	2.1	5.6	.63
15	16	29	22	22	17	46	47	21	6.5	1.2	2.7	.70
16	14	24	64	20	20	31	42	31	7.5	.63	2.3	.83
17	9.6	22	37	18	29	24	32	22	4.5	.41	2.1	1.2
18	6.7	20	22	15	27	22	30	17	4.2	.57	2.1	1.5
19	5.0	18	19	12	28	82	33	16	3.4	.63	1.4	1.5
20	3.6	16	20	14	27	69	36	20	2.9	.77	1.3	2.2
21	2.8	16	20	12	33	47	58	15	3.3	.91	.98	2.1
22	2.7	21	19	13	32	46	76	17	2.9	.83	.98	2.8
23	2.7	22	19	15	34	37	57	25	2.5	.77	.98	1.9
24	2.7	76	139	20	29	34	57	17	3.7	.83	1.1	1.6
25	2.7	44	179	30	24	29	110	14	2.0	.70	.98	1.2
26	2.7	30	165	24	19	29	84	20	2.3	.57	.83	1.2
27	2.6	25	74	20	18	59	58	15	2.5	.51	.91	1.1
28	2.6	23	112	18	22	163	42	13	11	.57	.91	.83
29	2.4	113	57	17	---	155	34	11	7.1	1.1	.70	.83
30	2.3	99	42	19	---	68	76	18	5.3	1.3	1.2	.83
31	3.0	---	35	27	---	55	---	16	---	1.2	1.3	---
TOTAL	105.4	1572	1450	679	979	1341	1615	1239	231.2	49.00	115.92	35.20
MEAN	3.40	52.4	46.8	21.9	35.0	43.3	53.8	40.0	7.71	1.58	3.74	1.17
MAX	16	250	179	54	212	163	120	173	24	3.3	60	2.8
MIN	1.3	16	16	12	15	15	30	11	2.0	.41	.70	.63
CFSM	.15	2.37	2.12	.99	1.58	1.96	2.43	1.81	.35	.07	.17	.05
IN.	.18	2.65	2.44	1.14	1.65	2.26	2.72	2.09	.39	.08	.20	.06

CAL YR 1982 TOTAL 10335.10 MEAN 28.3 MAX 300 MIN 1.0 CFSM 1.28 IN 17.40
WTR YR 1983 TOTAL 9411.72 MEAN 25.8 MAX 250 MIN .41 CFSM 1.17 IN 15.84

04217000 TONAWANDA CREEK AT BATAVIA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, Hydrologic Unit 04120104, on right bank 150 ft downstream from municipal dam, 500 ft upstream from bridge on Walnut Street in Batavia, and 5.0 mi downstream from Little Tonawanda Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--171 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1944 to current year.

REVISED RECORDS.--WSP 1627: 1956-57. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage.

COOPERATION.--City of Batavia maintains records of diversion.

AVERAGE DISCHARGE.--39 years, 208 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft^3/s Mar. 31, 1960, gage height, 12.70 ft; maximum gage height, 13.85 ft Apr. 6, 1947; minimum discharge, 0.4 ft^3/s Aug. 5-7, 1955; minimum gage height, 0.59 ft July 26, 27, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--From records of city of Batavia, maximum stage, 14.5 ft in March 1942.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft^3/s Nov. 5 at 1930 hours, gage height, 5.87 ft, no other peak above base of 1,800 ft^3/s; minimum, 4.0 ft^3/s July 19, gage height, 1.18 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	161	539	244	199	169	323	500	108	36	29	25
2	23	455	322	211	223	152	318	730	92	28	50	17
3	20	275	263	185	1050	141	480	1050	77	25	34	13
4	20	569	248	139	1190	139	510	984	65	22	25	11
5	17	1580	275	127	464	154	356	589	75	20	22	10
6	16	1170	309	151	331	149	265	374	106	18	57	10
7	17	446	304	148	255	134	254	279	240	16	34	14
8	22	433	223	167	211	124	322	255	130	14	21	17
9	25	340	198	120	174	115	251	336	88	14	20	13
10	25	227	139	123	139	118	255	244	67	14	21	11
11	22	181	170	267	126	260	338	192	58	13	24	8.3
12	21	263	123	345	110	280	337	171	52	11	389	9.2
13	28	696	109	151	108	235	289	151	45	10	326	10
14	24	459	120	181	114	243	222	136	39	9.7	109	9.7
15	70	275	139	171	126	294	230	130	34	9.2	60	7.4
16	298	211	364	151	145	232	318	203	50	8.3	41	7.9
17	95	174	404	109	232	176	229	171	43	7.0	31	10
18	60	161	189	100	240	148	192	133	37	5.9	28	12
19	44	145	181	83	240	266	207	117	38	4.9	25	13
20	36	133	154	80	219	491	214	139	31	5.9	20	15
21	30	123	161	82	255	322	273	130	27	6.6	19	20
22	32	171	154	88	248	308	372	111	27	9.2	20	25
23	31	192	151	109	240	249	320	167	22	17	19	31
24	29	399	429	248	231	248	248	145	18	13	17	29
25	29	450	1020	279	198	205	405	111	17	8.8	13	30
26	27	255	1370	199	152	201	399	123	19	6.3	13	25
27	26	211	1060	181	126	268	368	139	16	6.6	12	22
28	25	171	672	133	162	722	260	106	46	7.9	12	17
29	25	559	510	136	---	1050	216	90	120	8.3	12	15
30	27	843	331	139	---	637	256	106	54	25	14	14
31	25	---	263	203	---	390	---	117	---	33	18	---
TOTAL	1216	11728	10894	5050	7508	8620	9027	8229	1841	433.6	1535	471.5
MEAN	39.2	391	351	163	268	278	301	265	61.4	14.0	49.5	15.7
MAX	298	1580	1370	345	1190	1050	510	1050	240	36	389	31
MIN	16	123	109	80	108	115	192	90	16	4.9	12	7.4

CAL YR 1982 TOTAL 75495.0 MEAN 207 MAX 2690 MIN 14
WTR YR 1983 TOTAL 66553.1 MEAN 182 MAX 1580 MIN 4.9

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1978 to current year.
CHEMICAL DATA: 1971 (a), 1978 (c), 1980 (d), 1981-82 (c), 1983(b).
MINOR ELEMENT DATA: 1978-83 (b).
ORGANIC DATA: OC--1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1978 (c), 1979-80 (d), 1981-82 (c), 1983(b).
BIOLOGICAL DATA:
Bacteria--1978 (c), 1979-80 (d), 1981 (b), 1982 (c), 1983(b).
Phytoplankton--1978 (b), 1979-80 (c), 1981 (b).
SEDIMENT DATA: 1978 (c), 1979-80 (d), 1981-82 (c), 1983(b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1978 to September 1981.
WATER TEMPERATURES: January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 850 micromhos Mar. 14, 1978; minimum daily, 200 micromhos Feb. 20, 1981.
WATER TEMPERATURES: Maximum daily, 27.0°C July 15, 19, 1979, July 19, 21, 1980; minimum daily, freezing point on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV 17...	1000	178	415	7.7	2.0	7.0	755	14.8	108	190
FEB 25...	1015	203	373	7.8	2.0	14	745	10.4	77	K150
JUL 06...	1500	18	472	7.8	24.0	2.3	750	10.2	123	K12000
AUG 18...	0845	28	485	7.3	21.0	2.7	745	8.8	101	K80

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV 17...	120	200	43	60	12	15	2.3	157	30	23
FEB 25...	2800	170	36	50	11	19	1.6	135	30	28
JUL 06...	K28	230	42	68	15	14	2.8	190	33	24
AUG 18...	260	230	59	69	14	15	3.1	172	47	24

K Results based on colony count outside the acceptable range (non-ideal colony count).

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV										
17...	<.10	6.2	262	243	1.0	.100	.60	.040	.020	.020
FEB										
25...	<.10	4.0	247	225	1.0	.070	.30	.050	.030	.010
JUL										
06...	.20	5.9	339	277	.69	.110	.80	.090	.030	<.010
AUG										
18...	<.10	6.9	325	283	.86	.080	.50	.090	.060	.030

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV										
17...	<10	1	65	<1	<1	<1	<3	--	35	--
FEB										
25...	20	1	51	<1	1	<1	<3	3	25	6
JUL										
06...	<10	2	110	<1	<1	<1	<3	4	21	1
AUG										
18...	50	1	100	<1	<1	<1	<3	4	26	5

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV										
17...	8	98	2.4	20	--	<1	<1	130	<6.0	<4
FEB										
25...	<4	38	.3	<10	4	<1	<1	120	<6.0	5
JUL										
06...	7	30	<.1	<10	<1	<1	<1	170	<6.0	6
AUG										
18...	<4	65	.1	<10	1	<1	<1	160	<6.0	10

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV								
17...	1005	20	1.0	1.0	415	7.8	2.0	14.5
17...	1010	30	1.0	1.0	414	7.8	2.0	14.7
17...	1015	40	1.0	1.0	415	7.7	2.0	14.8
17...	1020	50	1.0	1.0	418	7.7	2.0	15.0
17...	1025	60	1.0	1.0	427	7.5	2.0	15.3
FEB								
25...	1020	20	1.0	1.0	365	7.8	2.0	10.6
25...	1025	30	1.0	1.0	365	7.8	2.0	10.3
25...	1030	40	1.0	1.0	369	7.8	2.0	10.6
25...	1035	50	1.0	1.0	378	7.6	2.0	10.4
25...	1040	60	1.0	1.0	388	7.6	2.0	8.8
JUL								
06...	1505	20	1.0	1.0	467	7.8	24.5	10.5
06...	1510	30	1.0	1.0	474	7.7	24.0	9.8
06...	1515	40	1.0	1.0	474	7.7	24.0	10.0
06...	1520	50	1.0	1.0	472	7.8	24.5	11.8
AUG								
18...	0850	20	1.0	1.0	483	7.3	21.0	8.6
18...	0855	30	1.0	1.0	485	7.3	21.0	8.7
18...	0900	40	1.0	1.0	481	7.4	21.0	8.9
18...	0905	50	1.0	1.0	490	7.3	21.0	9.1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV				
17...	1000	178	14	6.7
FEB				
25...	1015	203	19	10
JUL				
06...	1500	18	32	1.6
AUG				
18...	0845	28	4	.30

04217500 TONAWANDA CREEK NEAR ALABAMA, NY

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, Hydrologic Unit 04120104, on right bank 15 ft downstream from bridge on Meadville Road, 0.4 mi downstream from inoperable canal feeder connecting Tonawanda and Oak Orchard Creeks, 1.1 mi upstream from small tributary, and 3.2 mi west of Alabama.

DRAINAGE AREA.--231 mi^2.

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973. WDR NY-75-1: 1959 (P).

GAGE.--Water-stage recorder. Datum of gage is 605.93 ft National Geodetic Vertical Datum of 1929. Prior to October 1965, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--28 years, 280 ft^3/s, 16.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft^3/s Mar. 31, 1960, gage height, 14.28 ft; maximum gage height, 15.95 ft Jan. 23, 1959 (ice jam); minimum daily, 7.7 ft^3/s Sept. 14, 15, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft^3/s Nov. 6 at 0300 hours, gage height, 10.04 ft, no peak above base of 2,100 ft^3/s; minimum, 10 ft^3/s July 28, gage height, 4.93 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	57	914	339	358	197	455	613	132	71	42	23
2	46	413	539	312	380	197	413	922	121	55	35	27
3	41	543	397	274	988	176	487	1220	103	45	47	25
4	37	494	358	235	1570	168	759	1310	93	39	39	20
5	36	1350	390	226	857	168	539	984	91	35	31	18
6	33	1580	377	189	487	186	387	613	119	31	28	16
7	33	805	469	192	400	165	339	444	261	29	50	20
8	37	622	348	214	319	150	417	355	248	28	36	24
9	40	558	270	203	260	150	371	417	139	27	31	21
10	40	371	223	156	230	200	367	377	99	26	26	22
11	42	280	184	223	200	290	502	277	77	25	26	18
12	44	330	203	487	180	310	494	232	68	24	93	17
13	39	751	189	323	170	290	465	200	63	23	547	15
14	44	829	194	238	160	290	339	173	55	21	189	16
15	44	455	165	238	170	330	291	163	51	19	90	16
16	194	336	358	211	190	300	407	186	50	19	57	17
17	184	261	671	181	274	250	342	241	66	18	42	16
18	97	232	330	139	367	240	267	173	59	16	37	18
19	74	211	245	130	342	320	248	151	50	13	32	21
20	61	186	220	130	323	540	267	156	51	13	29	30
21	55	176	209	130	330	580	323	176	48	12	25	31
22	48	184	203	130	345	480	437	148	40	13	23	46
23	48	257	200	150	336	380	430	158	39	13	26	44
24	47	333	367	250	352	330	342	211	35	17	24	38
25	45	727	1180	370	284	305	387	153	32	20	22	46
26	45	424	1440	340	226	251	531	137	30	16	20	40
27	44	312	1410	270	178	319	472	171	31	14	19	31
28	41	257	918	220	176	829	374	144	41	11	18	26
29	41	487	841	200	---	1220	280	119	115	14	17	22
30	40	1010	520	200	---	1050	277	111	126	21	20	21
31	45	---	400	270	---	589	---	141	---	30	28	---
TOTAL	1716	14831	14732	7170	10452	11250	12009	10876	2533	758	1749	745
MEAN	55.4	494	475	231	373	363	400	351	84.4	24.5	56.4	24.8
MAX	194	1580	1440	487	1570	1220	759	1310	261	71	547	46
MIN	33	57	165	130	160	150	248	111	30	11	17	15
CFSM	.24	2.14	2.06	1.00	1.62	1.57	1.73	1.52	.37	.11	.24	.11
IN.	.28	2.39	2.37	1.15	1.68	1.81	1.93	1.75	.41	.12	.28	.12

CAL YR 1982 TOTAL 101995 MEAN 279 MAX 3460 MIN 28 CFSM 1.21 IN 16.43
WTR YR 1983 TOTAL 88821 MEAN 243 MAX 1580 MIN 11 CFSM 1.05 IN 14.30

04217750 MURDER CREEK NEAR AKRON, NY

LOCATION.--Lat 43°02'49", long 78°30'47", Erie County, Hydrologic Unit 04120104, on left bank at downstream side of bridge on State Highway 93, 2.0 mi northwest of Akron and 5.7 mi upstream from mouth.

DRAINAGE AREA.--58.8 mi^2.

PERIOD OF RECORD.--Occasional low flow discharge measurements, water years 1964-65. November 1982 to September 1983.

GAGE.--Water-stage recorder. Datum of gage is 623.78 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period November to September, 446 ft^3/s Dec. 26, gage height, 3.99 ft; maximum gage height, 4.11 ft Feb. 5 (ice jam); minimum discharge, 2.8 ft^3/s Sept. 26; minimum gage height, 1.55 ft Sept. 16.

EXTREMES OUTSIDE PERIOD OF RECORD.--Minimum measured discharge, 1.61 ft^3/s Oct. 15, 1964.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		50	228	81	65	46	114	111	21	11	4.6	4.4
2		170	166	68	98	45	89	245	20	7.7	4.6	4.2
3		150	111	58	224	42	92	318	20	6.1	4.0	4.0
4		240	92	45	320	41	101	375	19	5.3	4.0	3.8
5		370	87	41	350	40	103	289	18	5.6	4.0	3.8
6		310	95	39	160	41	81	192	22	4.9	3.6	3.6
7		280	87	37	110	44	74	126	39	4.4	3.3	6.4
8		310	77	41	76	40	86	89	57	4.4	3.4	4.0
9		190	60	39	62	39	89	72	42	4.2	5.3	3.8
10		140	40	45	52	37	103	69	25	4.0	4.0	3.8
11		110	34	49	46	56	128	60	18	4.0	4.9	3.4
12		150	30	70	38	89	144	49	14	4.2	5.3	3.6
13		210	27	70	31	98	128	42	13	4.2	5.1	3.6
14		200	25	68	29	76	108	38	11	4.0	21	3.6
15		130	24	58	28	61	86	35	9.2	4.2	20	3.4
16		110	77	45	32	53	86	34	8.4	4.0	11	3.6
17		79	120	40	51	46	83	35	7.7	3.6	7.4	3.8
18		68	110	39	76	40	70	35	7.7	4.0	6.4	3.6
19		57	94	38	92	60	61	32	7.0	4.0	5.6	3.8
20		49	68	35	90	111	57	32	6.7	3.6	4.9	4.2
21		47	53	32	95	141	58	35	6.4	3.8	4.4	5.1
22		51	51	30	92	110	68	35	5.9	4.0	4.6	4.4
23		56	51	26	92	98	66	33	5.3	3.4	4.9	4.0
24		79	106	31	89	86	56	35	5.1	3.4	4.4	3.1
25		98	254	45	80	74	49	33	4.6	3.4	4.4	2.9
26		121	423	78	58	66	53	29	4.2	3.6	4.4	3.3
27		96	393	74	48	80	60	28	4.7	3.4	4.2	3.3
28		70	283	68	48	190	56	27	8.4	3.4	4.2	3.3
29		106	202	49	---	330	48	25	6.4	4.6	4.2	3.1
30		162	162	41	---	292	51	23	12	5.6	5.6	2.9
31		---	104	50	---	175	---	23	---	4.6	5.3	---
TOTAL		4259	3734	1530	2632	2747	2448	2604	448.7	140.6	183.0	113.8
MEAN		142	120	49.4	94.0	88.6	81.6	84.0	15.0	4.54	5.90	3.79
MAX		370	423	81	350	330	144	375	57	11	21	6.4
MIN		47	24	26	28	37	48	23	4.2	3.4	3.3	2.9
CFSM		2.42	2.04	.84	1.60	1.51	1.39	1.43	.26	.08	.10	.06
IN.		2.69	2.36	.97	1.67	1.74	1.55	1.65	.28	.09	.12	.07

04218000 TONAWANDA CREEK AT RAPIDS, NY

LOCATION.--Lat 43°05'35", long 78°38'11", Niagara County, Hydrologic Unit 04120104, on right bank at downstream side of bridge on Rapids Road at Rapids, 4.6 mi east of Pendleton, 4.9 mi downstream from Beeman Creek, and 5.9 mi upstream from Mud Creek.

DRAINAGE AREA.--349 mi², includes 0.76 mi² in Mud Creek from which flow is diverted into Black Creek.

PERIOD OF RECORD.--August 1955 to September 1965, March 1978 to September 1979 (seasonal gage-height records only), October 1979 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 571.19 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--14 years (water years 1956-65, 1980-83) 364 ft³/s, 14.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft³/s Apr. 1, 1960, gage height, 16.96 ft; minimum 4.5 ft³/s July 28, 1983, gage height, 0.91 ft (result of diversion into Erie Barge Canal).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,120 ft³/s Dec. 28 at 0600 hrs, gage height, 7.90 ft, no peak above base of 2,400 ft³/s; minimum, 4.5 ft³/s July 28, gage height, 0.91 ft (result of diversion into Erie Barge Canal).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	58	1250	565	369	302	898	473	150	129	56	36
2	69	115	1230	475	472	308	633	1060	135	84	73	34
3	56	446	827	427	967	296	632	1510	118	64	66	33
4	48	528	592	369	1570	279	815	1970	104	56	77	33
5	41	827	554	331	1870	271	912	1950	94	48	71	26
6	36	1430	584	308	1690	273	692	1490	97	43	58	22
7	36	1810	592	301	1120	286	536	892	179	38	54	26
8	38	1480	588	312	560	268	549	569	323	36	73	25
9	39	1090	472	327	500	252	588	446	298	33	66	26
10	39	837	387	301	480	239	605	475	202	31	56	26
11	41	561	323	305	380	290	798	398	144	29	50	26
12	48	468	294	431	350	462	935	316	115	29	50	21
13	48	658	235	554	310	542	835	266	97	29	196	17
14	45	1020	291	390	280	460	677	232	84	28	435	14
15	48	1070	266	350	260	409	535	209	73	26	249	14
16	58	720	427	300	250	421	515	202	64	26	141	14
17	192	479	775	270	332	384	572	239	60	25	94	19
18	209	391	840	240	452	311	478	256	82	24	71	19
19	126	345	543	220	542	397	408	212	73	24	60	19
20	92	316	416	200	533	647	389	215	60	21	50	22
21	75	294	362	210	507	858	400	225	58	18	45	34
22	66	312	341	220	502	749	446	228	56	18	38	43
23	56	334	334	240	522	624	549	212	56	19	34	56
24	54	442	479	260	539	538	513	232	50	19	38	56
25	52	615	1140	350	505	477	427	242	39	22	36	52
26	50	821	1790	540	420	438	510	199	34	33	33	58
27	48	600	2040	450	343	467	591	175	31	26	31	56
28	48	453	2060	350	298	919	550	212	41	4.8	29	43
29	[illegible]	490	1640	300	---	1490	444	172	62	10	25	36
30	45	555	1250	260	---	1740	382	141	121	26	25	29
31	45	---	824	300	---	1500	---	126	---	39	28	---
TOTAL	1975	19925	23746	10456	16923	16897	17822	15544	3100	1057.8	2408	935
MEAN	63.8	664	766	337	604	545	594	501	103	34.1	77.7	31.2
MAX	209	1810	2060	565	1870	1740	935	1970	323	129	435	58
MIN	36	58	235	200	250	239	382	126	31	4.8	25	14
CFSM	.18	1.90	2.20	.97	1.73	1.56	1.70	1.44	.30	.10	.22	.09
IN.	.21	2.12	2.53	1.11	1.80	1.80	1.90	1.66	.33	.11	.26	.10

CAL YR 1982 TOTAL 155694.0 MEAN 427 MAX 4670 MIN 33 CFSM 1.22 IN 16.60
WTR YR 1983 TOTAL 130791.8 MEAN 358 MAX 2060 MIN 4.8 CFSM 1.03 IN 13.94

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY

LOCATION.--Lat 42°58'40", long 78°45'50", Erie County, Hydrologic Unit 04120104, on right bank 15 ft upstream from bridge on State Highway 324 (Sheridan Drive), 0.8 mi upstream from sewage treatment plant, 1.4 mi northwest of Williamsville, and 10.8 mi upstream from mouth.

DRAINAGE AREA.--81.6 mi^2.

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 586.41 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Regulation by intermittent pumping from stone quarry into stream upstream from station. Records at medium and high flows may be comparable with those obtained at station 04218500 between October 1955 and September 1972.

AVERAGE DISCHARGE.--11 years, 130 ft^3/s, 21.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft^3/s Mar. 5, 1979, gage height, 9.16 ft; maximum gage height, 9.23 ft Sept. 26, 1977; no flow for part of July 27, 1976, gage height, 0.73 ft result of pipeline construction.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 5	1945	1,020	*5.34	Feb. 3	2345	*1,030	5.27

Minimum discharge, 1.9 ft^3/s July 9, gage height, 0.96 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	68	356	120	180	91	123	237	36	31	27	21
2	28	291	206	100	210	88	103	470	30	23	20	18
3	24	350	152	92	705	73	112	614	28	20	18	15
4	25	380	150	84	708	70	156	626	30	19	18	13
5	34	852	200	80	200	73	141	395	33	20	26	13
6	23	700	198	76	160	87	104	182	58	38	21	13
7	32	411	192	84	130	86	109	131	128	21	33	38
8	34	437	140	92	110	88	143	109	112	16	37	16
9	25	395	112	84	100	72	133	106	58	4.5	36	16
10	26	192	88	72	94	75	135	107	37	12	26	15
11	37	159	82	90	90	124	219	85	27	5.5	49	13
12	28	262	76	221	86	215	217	74	25	20	60	12
13	32	538	70	140	80	141	190	68	25	8.3	73	5.8
14	33	470	66	120	76	107	128	66	24	4.2	53	18
15	33	200	74	100	70	111	131	71	20	4.2	32	33
16	67	148	242	92	84	102	147	64	19	10	25	39
17	64	123	400	88	136	74	130	56	20	12	21	36
18	41	110	170	86	194	70	100	52	18	13	20	40
19	33	96	115	80	168	180	77	67	20	13	19	31
20	31	93	90	74	137	353	86	74	18	12	17	8.3
21	31	112	92	70	135	296	92	68	16	10	15	25
22	20	126	87	64	137	221	99	64	14	13	16	20
23	18	157	90	58	134	200	77	66	15	11	16	21
24	17	230	253	54	147	161	71	73	13	11	15	18
25	19	309	799	190	119	140	72	51	8.8	9.8	14	17
26	26	198	781	140	96	126	78	47	7.9	11	13	17
27	25	138	534	120	77	194	77	48	21	10	16	18
28	25	126	327	82	75	529	63	44	68	12	22	17
29	26	272	328	72	---	553	55	37	47	30	16	12
30	22	512	206	74	---	289	81	43	36	77	24	11
31	25	---	141	110	---	152	---	53	---	24	20	---
TOTAL	938	8455	6817	3009	4638	5141	3449	4248	1012.7	525.5	818	590.1
MEAN	30.3	282	220	97.1	166	166	115	137	33.8	17.0	26.4	19.7
MAX	67	852	799	221	708	553	219	626	128	77	73	40
MIN	17	68	66	54	70	70	55	37	7.9	4.2	13	5.8
CFSM	.37	3.46	2.70	1.19	2.03	2.03	1.41	1.68	.41	.21	.32	.24
IN.	.43	3.85	3.11	1.37	2.11	2.34	1.57	1.94	.46	.24	.37	.27

CAL YR 1982 TOTAL 48206.8 MEAN 132 MAX 1560 MIN 5.8 CFSM 1.62 IN 21.98
WTR YR 1983 TOTAL 39641.3 MEAN 109 MAX 852 MIN 4.2 CFSM 1.34 IN 18.07

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, NY

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, Hydrologic Unit 04140201, on left bank in Macedon, 500 ft downstream from headgate in old Erie Canal, 700 ft downstream from bridge on State Highway 350, 0.2 mi downstream from Lock 30, and 2.6 mi upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920, October 1977 to current year (navigation seasons only), October 1950 to September 1977. Prior to October 1956, published as "Barge Canal at Lock 30, Macedon."

REVISED RECORDS.--WSP 1237: 1951

GAGE.--Water-stage recorder. Datum of gage is 447.58 ft National Geodetic Vertical Datum of 1929. Nov. 1, 1919 to Dec. 28, 1920, nonrecording gage at same site at different datum.

REMARKS.--Records good except those for non-navigation season, which are poor. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the non-navigation period, when the pool upstream from Lock 30 is drained, discharge consists of leakage through guard gates, runoff from small areas tributary to canal upstream from station, or diversion for use downstream in the Canal system.

COOPERATION.--Records of gate openings, lockages, lock-valve openings, and elevations of water surface in Erie (Barge) Canal upstream and downstream from Lock 30 furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--27 years (water years 1951-77), 200 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft³/s Dec. 3, 1969; minimum recorded daily, 0.04 ft³/s Mar. 31, Apr. 1, 2, 5, 6, 1983.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	256				.30	.04	2.1	134	292	288	272
2	260	249				.30	.04	2.4	137	296	294	267
3	265	249				.31	.25	2.6	138	288	283	278
4	269	251				.36	.08	5.1	142	304	281	274
5	255	248				.36	.04	4.8	146	297	285	282
6	255	246				.32	.04	23	139	308	273	270
7	263	246				.25	.14	43	145	303	270	264
8	264	246				.22	.10	45	139	305	282	268
9	267	251				.22	.05	47	141	300	280	258
10	262	245				.35	.39	50	147	301	283	267
11	262	246				.73	.24	52	149	294	278	278
12	258	244				.40	.36	81	154	299	298	264
13	261	245				.51	.13	94	188	305	290	264
14	259	244				.50	.13	110	263	305	284	270
15	252	242				.52	.75	105	270	307	274	264
16	256	240				.46	.61	118	278	302	277	266
17	259	239				.39	.26	124	284	299	283	271
18	256	239				.49	.10	140	283	297	279	280
19	256	239				.66	.13	130	283	288	278	265
20	259	238				.29	.54	145	283	300	284	263
21	259	237				1.3	1.3	133	279	295	289	266
22	256	242				.47	1.7	142	285	294	279	271
23	254	238				.31	.88	140	276	288	282	273
24	261	228				.28	1.3	137	278	300	274	266
25	257	223				.28	2.3	137	284	294	278	269
26	254	153				.28	1.4	144	293	289	271	267
27	255	57				.71	1.3	138	296	295	279	260
28	252	14				.63	1.3	145	289	289	280	263
29	250	8.2				.27	1.4	142	296	303	279	275
30	249	2.1				.10	2.1	136	287	292	271	263
31	252	---				.04	---	132	---	295	274	---
TOTAL	7987	6305.3				12.61	19.40	2850.0	6706	9224	8700	8058
MEAN	258	210				.41	.65	91.9	224	298	281	269
MAX	269	256				1.3	2.3	145	296	308	298	282
MIN	249	2.1				.04	.04	2.1	134	288	270	258

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY
(National stream-quality accounting network station)

WATER QUALITY RECORDS

LOCATION.--Lat 43°16'10", long 79°03'52", Niagara County, Hydrologic Unit 04120104, water samples collected about 2 mi upstream from Coast Guard wharf,and 1.5 mi south of Youngstown.

DRAINAGE AREA.--265,000 mi^2.

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983(b).
MINOR ELEMENT DATA: 1971 (a), 1972-83 (b).
ORGANIC DATA: OC--1973 (a), 1974-75 (b), 1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983(b).
BIOLOGICAL DATA:
Bacteria--1973 (b), 1974 (d), 1975-82 (c), 1983(b).
Phytoplankton--1973 (b), 1974 (d), 1975-77 (c), 1978-81 (c).
Periphyton--1974 (a), 1975-80 (b).
SEDIMENT DATA: 1975-77 (c), 1978 (b), 1979-82 (c), 1983(b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1973 to June 1980.
WATER TEMPERATURES: September 1973 to June 1980.

REMARKS.--Published in 1971 as "at Youngstown'. Discharge is the daily mean reported for Niagara River at Buffalo (station 04216000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
20...	1400	224000	285	7.6	14.5	3.8	770	11.3	110	110
APR										
06...	1530	216000	286	7.9	4.0	1.8	765	11.9	90	74
JUL										
05...	1330	236000	296	7.8	21.0	.80	760	10.3	116	2900
AUG										
10...	1300	236000	286	7.9	24.5	1.3	765	9.2	110	76

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
20...	120	130	34	38	8.5	9.2	1.0	96	27	17
APR										
06...	84	130	30	37	8.5	10	1.4	98	28	18
JUL										
05...	44	130	30	38	8.5	9.3	1.4	100	26	17
AUG										
10...	120	130	32	38	8.3	9.6	1.3	97	24	17

04219640 - NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT										
20...	.20	.3	157	159	.21	.050	.80	.020	.010	<.010
APR										
06...	.20	.02	165	162	.22	.020	.30	.020	<.010	<.010
JUL										
05...	.10	<.01	190	165	.24	<.010	.30	.020	.020	<.010
AUG										
10...	.10	.3	183	157	.15	.080	.20	.010	<.010	<.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT										
20...	30	1	38	<1	<1	<1	<3	7	<3	<1
APR										
06...	20	1	30	<1	<1	<1	<3	6	<3	1
JUL										
05...	<10	1	51	<1	<1	<1	<3	6	<3	1
AUG										
10...	10	2	61	<1	<1	<1	<3	8	5	2

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
20...	<4	<1	.3	<10	5	<1	<1	170	<6.0	5
APR										
06...	<4	<1	.1	<10	2	<1	<1	160	<6.0	15
JUL										
05...	<4	1	<.1	<10	1	<1	<1	170	<6.0	6
AUG										
10...	16	<1	<.1	<10	<1	<1	<1	160	<6.0	6

04219640 - NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT								
20...	1405	200	36.0	3.0	288	7.6	14.5	11.3
20...	1415	200	36.0	20.0	285	7.6	14.5	11.3
20...	1420	200	36.0	30.0	285	7.6	14.5	11.2
20...	1425	800	55.0	3.0	287	7.6	14.5	11.4
20...	1430	800	55.0	15.0	285	7.6	14.5	11.2
20...	1435	800	55.0	30.0	284	7.6	14.5	11.1
20...	1440	800	55.0	45.0	283	7.5	14.0	11.1
APR								
06...	1535	200	28.0	3.0	288	8.1	4.0	11.8
06...	1540	200	28.0	10.0	287	8.1	4.0	11.9
06...	1545	200	28.0	20.0	286	8.0	4.0	11.9
06...	1550	200	28.0	28.0	285	8.0	4.0	11.9
06...	1555	800	54.0	3.0	288	7.8	4.0	11.9
06...	1600	800	54.0	10.0	287	7.8	4.0	11.8
06...	1605	800	54.0	20.0	285	7.8	4.0	11.7
06...	1610	800	54.0	50.0	282	7.8	4.0	11.7
JUL								
05...	1335	200	38.0	3.0	297	7.8	21.0	10.4
05...	1340	200	38.0	10.0	297	7.8	21.0	10.2
05...	1345	200	38.0	20.0	296	7.8	21.0	10.2
05...	1350	200	38.0	35.0	295	7.8	21.0	10.1
05...	1355	800	42.0	3.0	297	7.8	21.0	10.5
05...	1400	800	42.0	12.0	296	7.8	21.0	10.4
05...	1405	800	42.0	25.0	296	7.7	21.0	10.4
05...	1410	800	42.0	40.0	295	7.8	20.5	10.3
AUG								
10...	1305	200	39.0	3.0	282	7.9	24.5	9.3
10...	1310	200	39.0	10.0	283	7.9	24.5	9.1
10...	1315	200	39.0	23.0	282	7.9	24.5	9.1
10...	1320	200	39.0	35.0	282	7.9	24.5	9.0
10...	1325	800	53.0	3.0	287	7.9	24.5	9.2
10...	1330	800	53.0	10.0	287	7.9	24.5	9.1
10...	1335	800	53.0	30.0	285	7.9	24.5	9.0
10...	1340	800	53.0	50.0	285	7.9	24.5	9.1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT				
20...	1400	224000	8	4840
APR				
06...	1530	216000	5	2920
JUL				
05...	1330	236000	4	2550
AUG				
10...	1300	236000	3	1910

04221000 GENESEE RIVER AT WELLSVILLE, NY

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, Hydrologic Unit 04130002, on left bank 35 ft upstream from concrete weir at Wellsville, 0.5 mi upstream from bridge on State Highway 17, 0.6 mi upstream from Crowner Brook and sewage treatment plant, 0.6 mi downstream from Dyke Creek, and 140.9 mi upstream from mouth.

DRAINAGE AREA.--288 mi².

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft National Geodetic Vertical Datum of 1929. October 1957 to September 1958, nonrecording gage at site 0.4 mi upstream at datum 3.00 ft higher. August 1955 to September 1957, at same site at datum 8.00 ft higher.

REMARKS.--Records good except those for winter periods, which are fair. Record for station 04221500 Genesee River at Scio, 5.2 mi downstream, published for June 1916 to September 1972.

AVERAGE DISCHARGE.--14 years (water years 1956-58, 1973-83), 403 ft³/s, 18.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s Mar. 8, 1956 (site and datum then in use, from graph based on gage readings) and Oct. 28, 1981 (present site and datum); maximum gage height, 13.60 ft October 28, 1981; minimum daily, 18 ft³/s Sept. 9, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since June 1916, 38,500 ft³/s June 23, 1972, gage height, 20.7 ft present datum, from floodmark, on basis of contracted-opening measurement of peak flow 0.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,220 ft³/s Mar. 21 at 2130 hours, gage height, 7.73 ft, no peak above base of 3,600 ft³/s; minimum discharge, 24 ft³/s many days in August and September; minimum gage height, 4.25 ft Aug. 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	104	435	360	114	225	449	1490	220	196	70	97
2	35	79	390	342	201	215	416	1930	201	165	62	54
3	33	59	354	308	1600	205	647	1680	178	136	49	44
4	32	739	331	240	720	215	623	1370	187	117	44	40
5	30	680	308	220	460	229	525	1050	174	100	52	35
6	28	281	354	220	420	220	483	855	165	91	73	35
7	28	192	281	225	380	234	525	688	169	85	52	38
8	30	152	249	205	340	229	846	623	136	76	44	35
9	30	124	220	160	330	229	672	664	121	70	40	32
10	28	107	180	182	250	416	688	504	107	67	38	30
11	28	110	180	254	240	655	864	429	100	62	35	28
12	32	148	170	220	220	483	680	384	94	57	42	26
13	30	281	140	160	180	435	599	348	85	54	42	26
14	30	192	170	160	200	483	532	314	79	49	38	26
15	33	156	192	169	190	647	976	314	76	47	35	26
16	35	136	469	150	178	584	1620	390	104	44	33	26
17	33	128	302	120	178	607	966	308	178	42	32	33
18	32	121	200	100	170	554	855	[illegible]	314	42	33	32
19	30	110	360	100	180	739	810	239	254	42	33	28
20	32	104	240	130	180	855	680	297	182	44	30	26
21	35	114	244	140	200	1480	615	249	169	44	28	40
22	35	270	225	120	239	1770	739	254	114	42	26	97
23	33	919	234	128	260	1100	697	525	97	42	28	55
24	32	680	623	156	229	800	[illegible]	416	85	85	26	45
25	30	476	1290	148	215	520	[illegible]	331	76	59	24	40
26	30	396	1390	120	180	520	976	319	70	47	26	34
27	30	348	873	124	180	547	882	281	67	42	47	35
28	30	314	828	120	200	584	722	254	765	40	44	34
29	28	819	647	100	---	722	631	249	518	42	121	31
30	28	525	518	120	---	561	1760	308	254	82	65	31
31	30	---	400	117	---	490	---	244	---	85	132	---
TOTAL	970	8864	12797	5418	8434	17553	23534	17572	5339	2196	1444	1159
MEAN	31.3	295	413	175	301	566	784	567	178	70.8	46.6	38.6
MAX	40	919	1390	360	1600	1770	1760	1930	765	196	132	97
MIN	28	59	140	100	114	205	416	239	67	40	24	26
CFSM	.11	1.02	1.43	.61	1.05	1.97	2.72	1.97	.62	.25	.16	.13
IN.	.13	1.14	1.65	.70	1.09	2.27	3.04	2.27	.69	.28	.19	.15

CAL YR 1982 TOTAL 133009 MEAN 364 MAX 4180 MIN 28 CFSM 1.26 IN 17.18
WTR YR 1983 TOTAL 105280 MEAN 288 MAX 1930 MIN 24 CFSM 1.00 IN 13.60

04223000 GENESEE RIVER AT PORTAGEVILLE, NY

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft downstream from bridge on State Highway 436, 800 ft upstream from abandoned railroad bridge piers, 0.9 mi upstream from Upper Falls, and 89.8 mi upstream from mouth.

DRAINAGE AREA.--984 mi^2.

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916(M). WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage and Aug. 24, 1911 to Sept. 30, 1946, water-stage recorder at site 8 mi downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft downstream at datum 2.60 ft higher (destroyed by flood of June 1972). July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft upstream at datum 11.48 ft higher.

REMARKS.--Records good except those for winter periods, which are fair. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake.

AVERAGE DISCHARGE.--75 years (water years 1909-83), 1,251 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 90,000 ft^3/s June 23, 1972, gage height, 35.25 ft site and datum then in use, from high-water mark, from rating curve extended above 25,000 ft^3/s on basis of contracted-opening measurement of 71,000 ft^3/s at highway bridge 0.4 mi upstream and contracted-opening measurement of 98,200 ft^3/s 0.7 mi downstream from gage; minimum, 18 ft^3/s Oct. 5, 17, 1913, gage height, 1.70 ft site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft^3/s Dec. 25 at 2300 hours, gage height, 14.14 ft, no peak above base of 15,000 ft^3/s; minimum, 92 ft^3/s Sept. 16, gage height, 8.20 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	177	2140	1250	600	734	1390	5740	900	578	279	415
2	606	484	1460	1080	579	742	1320	7490	741	434	374	270
3	594	489	1240	959	4730	700	2410	7700	555	368	294	194
4	575	6190	1260	740	3460	685	2460	5930	510	324	260	161
5	558	5380	2120	620	1400	743	1800	4070	540	309	205	148
6	473	1880	1890	697	1000	738	1410	2660	489	340	213	135
7	151	1230	1190	685	940	710	1530	1970	570	242	197	135
8	135	987	954	767	800	696	2550	1580	517	221	165	126
9	248	769	828	651	640	644	1910	1890	422	201	129	120
10	253	610	620	683	440	678	2010	1460	374	190	129	115
11	255	570	560	1280	390	2160	2440	1180	346	179	151	109
12	265	900	560	1400	340	1750	1890	1070	314	172	965	104
13	255	2880	430	680	390	1360	1550	943	303	161	750	145
14	144	1720	450	728	450	1500	1310	848	346	155	303	179
15	183	1350	581	862	460	2120	2860	900	270	138	221	104
16	434	1140	1260	814	460	1840	4440	1140	303	142	190	94
17	360	1010	1580	620	480	1620	2530	1120	289	135	155	94
18	284	660	800	520	500	1410	2120	921	547	132	197	97
19	262	643	680	390	620	1870	2080	704	525	126	179	102
20	253	1010	720	240	663	2690	1750	769	468	132	142	104
21	180	1010	722	200	806	2900	1620	798	441	138	135	234
22	158	1390	713	180	922	5670	2220	678	340	161	132	161
23	300	2530	695	180	1070	2920	2560	1200	284	151	123	260
24	311	3320	1940	340	981	2200	1880	1550	251	148	118	441
25	302	2030	6800	490	811	1600	4070	1190	225	172	112	422
26	292	1440	7110	390	691	1300	3080	1010	209	179	102	397
27	282	1300	3670	370	500	1400	3340	848	197	151	104	385
28	148	1420	3180	410	620	2350	2080	713	2620	135	104	346
29	130	3990	2490	500	---	3550	1630	652	3020	132	115	142
30	125	3370	1840	591	---	2040	5440	1150	1080	138	175	145
31	124	---	1360	600	---	1570	---	1130	---	148	230	---
TOTAL	8928	51879	51843	19917	25743	52890	69680	61004	17996	6332	6948	5884
MEAN	288	1729	1672	642	919	1706	2323	1968	600	204	224	196
MAX	606	6190	7110	1400	4730	5670	5440	7700	3020	578	965	441
MIN	124	177	430	180	340	644	1310	652	197	126	102	94

CAL YR 1982 TOTAL 492412 MEAN 1349 MAX 17100 MIN 104
WTR YR 1983 TOTAL 379044 MEAN 1038 MAX 7700 MIN 94

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris Dam on Genesee River, 2.0 mi northwest of Mount Morris, 5 mi upstream from Canaseraga Creek, and 69.3 mi upstream from mouth.

DRAINAGE AREA.--1,080 mi².

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as "Mount Morris Reservoir near Mount Morris."

REVISED RECORDS.--WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft between elevation 585.0 ft, sill of conduits, and 760.0 ft, crest of spillway. Dead storage, 609 acre-ft. Discharge is controlled by the operation of nine gates. Water is stored during high flows and released when downstream conditions warrant.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 755.46 ft June 25, 1972, contents, 322,600 acre-ft; minimum, 584.23 ft Sept. 2, 1976, contents, 475.8 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 641.02 ft May 4, contents, 45,230 acre-ft; minimum, 586.33 ft Oct. 31, contents, 853.3 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by Corps of Engineers in 1953)

584.00	436	600.00	5,610	640.00	43,700
586.00	782	605.00	8,250	660.00	78,200
588.00	1,210	610.00	11,600	680.00	119,800
590.00	1,730	620.00	19,800	700.00	166,300
595.00	3,410	630.00	30,500	730.00	245,200
				750.00	305,100

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	587.52	586.57	621.45	605.20	594.77	602.25	594.72	615.28	594.52	614.91	601.94	603.50
2	587.48	587.00	625.10	600.10	594.82	601.83	593.38	623.52	598.59	610.27	603.47	605.62
3	587.74	588.19	624.58	594.60	605.14	601.33	593.40	634.04	598.00	605.34	604.21	606.53
4	587.93	598.53	620.79	594.00	620.02	600.54	600.18	640.28	598.39	604.14	604.30	606.78
5	588.08	622.35	616.65	593.00	622.79	599.92	599.00	638.67	598.65	603.22	604.04	605.90
6	588.19	622.30	614.51	593.00	[illegible]3.00	599.97	594.57	631.33	598.86	602.64	601.39	604.79
7	587.57	616.90	610.19	592.80	623.02	599.79	593.54	622.63	598.60	603.09	600.12	603.76
8	586.76	609.18	600.31	593.30	622.91	599.43	595.33	613.81	599.40	602.98	599.44	603.33
9	586.61	595.39	591.83	592.30	622.30	599.29	599.16	607.44	598.83	602.55	598.98	602.95
10	586.82	591.18	590.84	592.70	621.17	597.29	595.17	602.76	597.35	602.00	598.43	602.51
11	586.88	590.57	590.18	594.52	619.49	601.48	596.81	593.66	597.42	601.70	598.02	602.00
12	586.92	591.62	590.51	597.69	617.65	609.41	607.52	591.76	597.64	601.40	601.56	601.41
13	586.92	601.89	589.77	593.55	615.92	612.21	615.88	591.15	598.91	601.07	607.50	600.71
14	586.87	605.01	589.50	593.74	613.91	613.61	620.09	590.77	600.03	601.05	608.13	600.28
15	586.96	598.87	590.30	598.41	611.99	615.72	619.96	590.71	600.94	601.13	606.78	600.40
16	587.71	593.61	592.00	600.24	610.22	618.40	618.96	591.69	601.38	601.14	604.96	599.88
17	587.67	592.76	596.00	599.47	608.47	617.24	621.02	592.20	602.02	601.09	602.63	598.95
18	587.56	590.93	592.60	596.60	606.78	611.02	618.27	590.70	602.40	601.06	600.16	597.94
19	587.37	590.20	590.80	594.20	605.28	604.29	614.05	589.80	603.48	601.03	600.60	596.84
20	587.24	591.78	590.90	592.78	604.28	606.82	609.35	589.67	603.68	600.98	600.82	595.90
21	587.13	592.36	590.90	592.51	603.76	615.86	603.71	590.13	602.63	600.92	600.58	596.12
22	586.85	593.13	590.80	594.07	604.59	625.14	595.86	589.61	602.19	600.85	600.31	598.68
23	586.76	598.71	590.70	596.28	605.90	632.31	597.57	590.86	601.39	600.89	600.00	599.10
24	587.09	606.13	593.10	599.20	607.12	632.66	600.22	594.68	601.30	601.03	599.64	601.19
25	587.18	609.42	609.50	601.94	607.25	630.48	596.66	592.80	601.08	601.10	599.89	603.91
26	587.16	605.93	623.40	602.70	606.57	625.52	605.91	591.18	600.95	601.36	600.13	605.70
27	587.13	597.73	626.60	601.62	605.10	618.37	608.66	590.43	600.74	601.64	600.25	607.12
28	587.03	594.38	624.80	597.75	603.31	610.00	609.56	589.82	603.11	601.70	600.34	608.30
29	586.64	599.15	622.00	594.82	---	607.28	606.22	589.50	616.94	601.71	600.47	608.59
30	586.43	613.86	617.70	594.91	---	608.08	600.55	590.71	617.99	601.71	600.71	608.13
31	586.36	---	611.20	594.96	---	602.94	---	592.40	---	601.71	601.81	---
MEAN	587.18	599.19	604.18	596.23	610.98	610.34	604.18	601.42	601.25	602.50	601.66	602.56
MAX	588.19	622.35	626.60	605.20	623.02	632.66	621.02	640.28	617.99	614.91	608.13	608.59
MIN	586.36	586.57	589.50	592.30	594.77	597.29	593.38	589.50	594.52	600.85	598.02	595.90
†	887.8	18,610	12,460	3,349	7,021	4,857	10,200	2,089	16,960	6,484	6,903	9,980
††	-3.97	+298	-100	-148	+66.1	-35.2	+89.8	-132	+250	-170	+6.81	+5.17

CAL YR 1982 MEAN 601.41 MAX 660.77 MIN 585.31 †† +24.4
WTR YR 1983 MEAN 601.73 MAX 640.28 MIN 586.36 †† -9.67

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY

LOCATION.--Lat 42°32'08", long 77°42'16", Livingston County, Hydrologic Unit 0413002, on right bank on Poags Hole Road, 0.7 mi upstream from Stony Brook, and 1.7 mi south of Dansville.

DRAINAGE AREA.--88.9 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 715.60 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--9 years, 99.5 ft^3/s, 15.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft^3/s Sept. 20, 1977, gage height, 5.51 ft; minimum discharge, 7.4 ft^3/s Sept. 11, 1975; minimum gage height, 0.70 ft several days in August, September, and October 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 611 ft^3/s Nov. 4 at 2030 hours and Apr. 26 at 2030 hours; maximum gage height, 2.64 ft Nov. 4, no peak above base of 1,000 ft^3/s; minimum discharge, 7.6 ft^3/s Sept. 20, 21, gage height, 0.82 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	104	76	59	70	117	337	57	29	14	11
2	16	22	94	64	68	72	117	364	55	26	17	11
3	15	23	87	56	203	67	156	375	53	24	13	9.9
4	14	386	85	45	112	67	132	303	54	23	13	9.6
5	13	224	83	39	74	81	126	205	53	22	14	9.6
6	12	99	87	60	62	75	123	132	53	20	13	9.3
7	13	77	79	75	54	73	129	80	57	19	12	9.9
8	13	62	70	72	56	72	129	71	52	18	11	8.8
9	12	54	65	49	70	72	123	87	47	17	11	8.8
10	12	47	54	56	38	87	132	65	42	17	10	8.6
11	13	46	46	94	54	132	129	60	39	16	12	8.6
12	13	51	54	89	48	132	129	60	37	15	24	8.6
13	13	85	50	62	48	132	120	59	34	15	21	7.8
14	13	67	56	68	62	149	106	59	32	14	16	8.3
15	16	55	52	68	54	174	257	59	31	14	14	8.3
16	18	50	83	62	58	120	224	59	51	14	12	8.3
17	17	46	75	49	64	114	152	59	71	13	12	8.3
18	16	43	43	44	65	112	149	58	65	12	13	8.3
19	14	41	64	42	67	120	145	58	49	12	12	8.3
20	14	39	61	41	65	123	139	58	39	12	11	7.8
21	14	39	58	41	75	182	145	58	35	14	11	11
22	15	50	52	42	83	190	229	58	31	17	11	11
23	15	87	55	54	87	117	287	60	28	14	11	10
24	15	104	139	54	77	109	257	59	27	13	9.9	9.6
25	14	87	262	54	70	104	337	58	25	12	9.6	9.6
26	14	75	233	52	49	99	353	58	23	12	11	9.3
27	14	67	123	51	38	109	375	57	22	11	12	9.3
28	14	62	114	49	54	163	282	57	59	11	11	8.8
29	14	178	109	47	---	174	220	55	52	12	10	8.8
30	13	114	104	46	---	117	358	59	34	11	11	8.6
31	13	---	84	58	---	117	---	58	---	11	13	---
TOTAL	440	2397	2725	1759	1914	3525	5677	3245	1307	490	395.5	275.1
MEAN	14.2	79.9	87.9	56.7	68.4	114	189	105	43.6	15.8	12.8	9.17
MAX	18	386	262	94	203	190	375	375	71	29	24	11
MIN	12	17	43	39	38	67	106	55	22	11	9.6	7.8
CFSM	.16	.90	.99	.64	.77	1.28	2.13	1.18	.49	.18	.14	.10
IN.	.18	1.00	1.14	.74	.80	1.48	2.38	1.36	.55	.21	.17	.12

CAL YR 1982 TOTAL 32564.0 MEAN 89.2 MAX 1280 MIN 12 CFSM 1.00 IN 13.63
WTR YR 1983 TOTAL 24149.6 MEAN 66.2 MAX 386 MIN 7.8 CFSM .75 IN 10.11

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

LOCATION.--Lat 42°44'13", long 77°50'27", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft upstream from bridge on State Highway 408 at Shakers Crossing, 1.4 mi upstream from mouth, and 1.5 mi northeast of Mount Morris.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--July 1915 to September 1922 (gage height only), November 1958 to September 1970, October 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 545.52 ft National Geodetic Vertical Datum of 1929. Prior to July 1981 at site 250 ft east on left bank of old filled-in channel at same datum and prior to November 1958 at site 250 ft east and 40 ft north at datum 5.52 ft lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi downstream from base gage.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years (water years 1960-70, 1975-83), 287 ft³/s, 11.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,270 ft³/s Mar. 4, 1976, gage height, 13.33 ft; maximum gage height, 23.62 ft present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.3 ft³/s Aug. 19, 1970, gage height, 2.26 ft, result of temporary regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972 reached an estimated discharge of 11,200 ft³/s from Corps of Engineers publication (Tropical Storm Agnes, June 1972).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,950 ft³/s May 3 at 0430 hours, gage height, 8.38 ft, no peaks above base of 3,000 ft³/s; maximum gage height, 10.20 ft May 6 at 0345 hours (backwater from Genesee River); minimum discharge, 27 ft³/s Sept. 13, gage height, 3.44 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	55	281	218	152	214	330	1250	200	105	45	56
2	44	62	230	209	156	221	305	1630	179	99	60	41
3	42	63	183	187	612	202	426	1650	161	92	52	36
4	42	1540	145	140	400	168	397	1350	169	89	42	34
5	42	988	138	130	160	204	341	591	175	69	60	34
6	44	303	175	159	150	208	307	468	155	87	73	33
7	43	171	159	156	140	195	332	526	220	82	50	34
8	42	135	152	152	130	183	384	430	163	78	39	33
9	40	132	142	116	94	172	311	491	134	75	38	30
10	39	119	86	149	70	197	355	360	122	70	36	30
11	46	110	82	226	80	526	383	322	119	64	41	29
12	47	135	78	273	84	409	351	297	118	58	209	29
13	44	303	74	156	96	324	314	272	109	52	132	29
14	43	192	94	183	100	336	270	254	98	48	73	29
15	50	152	120	145	125	418	504	244	95	44	56	29
16	60	128	200	132	135	347	782	288	178	40	52	36
17	54	119	246	99	156	275	445	255	170	39	44	34
18	50	110	119	132	163	244	391	222	351	38	44	33
19	47	102	142	116	163	324	446	205	178	36	44	33
20	46	97	142	119	167	370	406	255	139	38	39	31
21	44	97	142	107	187	518	493	236	121	38	35	34
22	44	128	132	110	205	777	590	208	104	58	35	62
23	44	265	135	128	214	408	798	272	96	51	38	42
24	44	370	340	209	214	315	609	301	90	42	34	38
25	44	269	776	230	183	248	1240	239	88	42	33	35
26	44	200	1060	175	152	240	1090	222	91	39	33	34
27	44	196	472	149	128	375	1320	206	92	38	52	39
28	48	163	407	122	171	800	747	184	221	38	36	33
29	47	538	328	113	---	835	548	176	273	35	38	33
30	43	412	250	135	---	429	1110	248	131	44	50	31
31	43	---	196	163	---	356	---	229	---	44	72	---
TOTAL	1401	7654	7226	4838	4787	10838	16325	13881	4540	1792	1685	1054
MEAN	45.2	255	233	156	171	350	544	448	151	57.8	54.4	35.1
MAX	60	1540	1060	273	612	835	1320	1650	351	105	209	62
MIN	39	55	74	99	70	168	270	176	88	35	33	29
CFSM	.14	.76	.70	.47	.51	1.05	1.62	1.34	.45	.17	.16	.11
IN.	.16	.85	.80	.54	.53	1.20	1.81	1.54	.50	.20	.19	.12

CAL YR 1982 TOTAL 104592 MEAN 287 MAX 3370 MIN 35 CFSM .86 IN 11.61
WTR YR 1983 TOTAL 76021 MEAN 208 MAX 1650 MIN 29 CFSM .62 IN 8.44

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft north of Jones Bridge Road, 0.8 mi downstream from Canaseraga Creek, 2.8 mi northeast of Mount Morris and 63.0 mi upstream from mouth.

DRAINAGE AREA.--1,424 mi².

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area. WDR NY-78-1: 1974-77 (M, m).

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft lower.

REMARKS.--Records good. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221991) since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--73 years (water years 1909-13, 1916-83), 1,658 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,100 ft³/s May 17, 1916, gage height, 25.44 ft; maximum gage height, 25.77 ft, present datum (ice jam); minimum discharge, 1[illegible] ft³/s July 23, 1955, gage height, 0.22 ft, partially obstructed intake; minimum daily, 30 ft³/s Aug. 8, 1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,240 ft³/s May 6, gage height, 13.94 ft; minimum, 91 ft³/s Aug. 10, gage height, 1.51 ft, result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	241	689	2560	877	1180	2210	5080	1140	1960	198	162
2	517	382	1170	2060	853	1150	2020	5710	1010	1810	277	145
3	643	676	2720	1490	1680	1100	2420	3470	838	1180	336	141
4	631	2660	3560	1220	1790	1050	3240	4370	733	536	358	247
5	613	4380	3380	1110	1760	1090	2810	7680	738	510	501	350
6	602	4590	3310	1020	1820	1080	2220	9000	722	423	431	345
7	358	4070	3080	953	1610	1050	2100	7340	778	342	314	279
8	203	3340	2600	1010	1550	1020	2870	5070	734	338	242	212
9	220	1940	1380	896	1700	1000	2910	3620	693	334	213	205
10	304	954	922	907	1680	997	2530	2960	571	303	241	203
11	323	800	821	1260	1740	1580	2180	2110	498	270	296	198
12	326	936	864	1950	1720	1610	590	1620	432	264	470	197
13	326	2260	771	1230	1580	1530	583	1420	364	235	573	192
14	274	2780	723	959	1500	1580	1780	1270	370	192	625	189
15	238	2380	827	952	1280	1750	3400	1220	372	187	584	190
16	465	1490	1130	1010	1240	2110	4480	1520	450	180	562	199
17	480	1270	2190	1100	1240	3270	4450	1660	452	182	522	192
18	400	965	1360	944	1220	3710	4170	1340	767	181	354	187
19	355	777	1120	765	1200	2650	3970	1060	637	179	210	177
20	341	1020	1040	1040	1160	1590	3610	1060	684	178	213	171
21	319	1160	988	1300	1180	563	3220	1170	698	178	210	217
22	250	1320	942	1360	1220	1280	2940	1000	550	209	199	207
23	281	2360	924	1540	1260	2540	3520	1240	448	189	206	202
24	385	2990	1380	1540	1270	3820	3120	2030	362	189	169	213
25	383	3120	3440	1500	1240	4540	3970	1690	340	185	126	218
26	374	2830	4560	1520	1190	5190	4360	1420	312	181	124	229
27	368	2200	4290	1450	1120	4890	4650	1220	291	196	150	287
28	330	1710	4710	1260	1150	4780	4100	1020	408	176	135	341
29	219	2600	4490	976	---	4380	3500	915	1150	164	135	342
30	202	2280	4160	865	---	3840	3690	1220	2060	194	153	338
31	201	---	3550	930	---	3230	---	1650	---	190	175	---
TOTAL	11220	60481	67091	38677	38830	71150	91613	83155	19602	11835	9302	6775
MEAN	362	2016	2164	1248	1387	2295	3054	2682	653	382	300	226
MAX	643	4590	4710	2560	1820	5190	4650	9000	2060	1960	625	350
MIN	201	241	689	765	853	563	583	915	291	164	124	141

CAL YR 1982 TOTAL 646796 MEAN 1772 MAX 9760 MIN 112
WTR YR 1983 TOTAL 509731 MEAN 1397 MAX 9000 MIN 124

04227980 CONESUS LAKE NEAR LAKEVILLE, NY

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, Hydrologic Unit 04130003, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft east of State Highway 256, and 3.0 mi south of Lakeville.

DRAINAGE AREA.--69.8 mi².

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Oct. 1, 1970 to Sept. 30, 1975, at datum 800.00 ft higher. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft downstream at datum 796.59 ft higher.

REMARKS.--Lake level maintained by plank and pile dam at outlet. Area of water surface, 5.08 mi². Daily average of about 2 ft³/s diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 822.50 ft June 24, 1972; minimum observed, 816.33 ft present datum, Nov. 3-8, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 819.78 ft May 4-5; minimum, 816.91 ft Oct. 30-31.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817.40	817.01	817.53	817.74	817.32	817.38	818.42	819.51	818.48	818.15	817.60	817.50
2	817.39	817.05	817.57	817.75	817.31	817.38	818.43	819.62	818.47	818.14	817.63	817.47
3	817.38	817.07	817.55	817.77	817.41	817.37	818.45	819.70	818.46	818.12	817.67	817.45
4	817.38	817.33	817.57	817.68	817.51	817.36	818.50	819.77	818.47	818.10	817.63	817.43
5	817.36	817.55	817.56	817.57	817.54	817.36	818.53	819.77	818.48	818.11	817.63	817.42
6	817.32	817.54	817.55	817.58	817.54	817.33	818.56	819.74	818.37	818.07	817.63	817.43
7	817.32	817.57	817.59	817.56	817.55	817.33	818.55	819.65	818.36	818.04	817.61	817.43
8	817.32	817.57	817.61	817.57	817.56	817.32	818.58	819.60	818.37	818.01	817.59	817.39
9	817.29	817.55	817.57	817.57	817.54	817.36	818.60	819.56	818.36	817.98	817.56	817.37
10	817.27	817.54	817.51	817.50	817.52	817.37	818.58	819.49	818.35	817.93	817.53	817.35
11	817.23	817.40	817.51	817.53	817.50	817.40	818.63	819.42	818.34	817.92	817.54	817.33
12	817.23	817.40	817.51	817.55	817.48	817.43	818.67	819.36	818.30	817.91	817.73	817.31
13	817.23	817.45	817.49	817.56	817.46	817.47	818.67	819.30	818.31	817.88	817.73	817.28
14	817.20	817.45	817.42	817.56	817.44	817.50	818.63	819.22	818.30	817.84	817.71	817.25
15	817.23	817.43	817.43	817.57	817.42	817.52	818.67	819.15	818.29	817.82	817.69	817.22
16	817.20	817.42	817.40	817.57	817.41	817.54	818.73	819.09	818.32	817.80	817.67	817.20
17	817.18	817.40	817.41	817.56	817.41	817.54	818.77	819.02	818.35	817.78	817.66	817.18
18	817.13	817.40	817.42	817.53	817.41	817.56	818.79	818.94	818.35	817.79	817.66	817.24
19	817.10	817.36	817.39	817.52	817.40	817.61	818.80	818.83	818.34	817.78	817.64	817.18
20	817.07	817.34	817.41	817.50	817.40	817.65	818.84	818.80	818.34	817.75	817.63	817.18
21	817.06	817.34	817.46	817.47	817.41	817.69	818.88	818.77	818.32	817.70	817.60	817.24
22	817.03	817.39	817.48	817.44	817.41	817.80	818.91	818.72	818.29	817.68	817.59	817.27
23	817.00	817.44	817.44	817.43	817.41	817.87	818.97	818.70	818.27	817.66	817.57	817.24
24	816.97	817.41	817.46	817.30	817.41	817.91	819.01	818.68	818.25	817.64	817.55	817.21
25	816.96	817.44	817.53	817.29	817.41	817.92	819.17	818.60	818.22	817.62	817.53	817.19
26	816.95	817.45	817.61	817.29	817.41	817.94	819.30	818.56	818.17	817.58	817.51	817.17
27	816.94	817.47	817.64	817.30	817.40	817.93	819.38	818.51	818.15	817.58	817.49	817.16
28	816.93	817.43	817.65	817.29	817.40	818.08	819.42	818.45	818.20	817.55	817.48	817.14
29	816.93	817.45	817.70	817.28	---	818.24	819.40	818.41	818.24	817.54	817.46	817.12
30	816.92	817.51	817.74	817.29	---	818.34	819.44	818.45	818.19	817.54	817.49	817.10
31	816.92	---	817.75	817.32	---	818.40	---	818.46	---	817.56	817.51	---
MEAN	817.16	817.41	817.53	817.50	817.44	817.64	818.81	819.09	818.32	817.82	817.60	817.28
MAX	817.40	817.57	817.75	817.77	817.56	818.40	819.44	819.77	818.48	818.15	817.73	817.50
MIN	816.92	817.01	817.39	817.28	817.31	817.32	818.42	818.41	818.15	817.54	817.46	817.10

CAL YR 1982 MEAN 817.86 MAX 819.15 MIN 816.92
WTR YR 1983 MEAN 817.80 MAX 819.77 MIN 816.92

04228500 GENESEE RIVER AT AVON, NY

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, Hydrologic Unit 04130003, on right bank 250 ft downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mi west of Avon, 0.8 mi downstream from Conesus Creek, and 35.6 mi upstream from mouth.

DRAINAGE AREA.--1,673 mi^2.

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.11 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221990), at high flows by Mount Morris Lake (see station 04224000), and by Conesus Lake (see station 04227980). Monthly figures of discharge and runoff August 1955 to September 1965 adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--28 years (water years 1956-83), 1,920 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s June 25, 1972, gage height, 40.67 ft; minimum, 47 ft^3/s Oct. 10-11, 1980, gage height, 13.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,880 ft^3/s May 6, gage height, 30.89 ft; minimum, 146 ft^3/s Aug. 27, gage height, 14.09 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	451	298	1370	3180	1420	1230	2840	4960	1440	1870	221	200
2	354	418	883	2430	1360	1240	2220	6190	1090	1750	240	181
3	646	630	2030	1900	2100	1200	2270	5610	1050	1560	336	167
4	675	1880	3230	1390	2880	1160	3220	4370	855	796	392	163
5	654	4890	3370	1200	2300	1150	3230	6370	845	607	481	301
6	640	4820	3360	1160	2180	1180	2590	8490	856	575	603	374
7	603	4360	3240	1110	2190	1150	2210	8210	871	429	432	372
8	340	3780	2860	1090	2060	1110	2610	6300	867	386	340	270
9	240	2750	1950	1080	2040	1090	3060	4550	818	378	272	225
10	281	1400	1190	1010	2030	1090	2780	3550	763	367	233	220
11	350	1040	1010	1120	2150	1490	2960	2900	618	319	274	218
12	362	1020	953	1740	2220	2010	1450	2060	580	297	2090	211
13	364	1860	1200	1630	2160	1760	855	1760	465	285	1270	209
14	364	2850	1620	1160	2060	1690	1140	1570	421	242	822	204
15	315	2670	1360	1050	1960	1740	2720	1440	427	214	722	201
16	327	1950	1100	1090	1830	1790	4140	1560	452	209	659	206
17	565	1410	1820	1040	1780	2660	4490	1810	564	204	618	215
18	518	1240	1850	1760	1690	3560	4240	1660	917	204	571	208
19	434	968	1140	1740	1570	3280	4050	1410	844	200	341	215
20	394	934	1130	1630	1460	2410	3830	1260	727	198	245	238
21	378	1190	1100	1370	1400	1230	3920	1320	822	197	235	215
22	330	1230	1060	1260	1340	1630	3570	1280	699	201	228	242
23	274	1820	1030	1490	1360	2050	3760	1220	619	221	220	248
24	344	2730	1220	1820	1380	3330	3690	1790	459	205	224	224
25	419	3170	2850	2060	1340	4060	4280	1970	406	203	182	222
26	414	2980	4430	1900	1280	4830	5050	1620	364	198	151	227
27	404	2620	4470	1750	1210	4900	4940	1440	348	193	149	233
28	398	1850	4750	1600	1210	5370	4620	1260	379	211	166	233
29	327	2180	4720	1400	---	5310	4050	1080	662	192	152	313
30	236	3220	4330	1270	---	4430	3670	1070	1650	198	175	357
31	227	---	3940	1440	---	3760	---	1530	---	213	193	---
TOTAL	12628	64158	70566	46870	49960	74890	98455	91610	21878	13322	13237	7112
MEAN	407	2139	2276	1512	1784	2416	3282	2955	729	430	427	237
MAX	675	4890	4750	3180	2880	5370	5050	8490	1650	1870	2090	374
MIN	227	298	883	1010	1210	1090	855	1070	348	192	149	163

CAL YR 1982 TOTAL 692146 MEAN 1896 MAX 10000 MIN 166
WTR YR 1983 TOTAL 564686 MEAN 1547 MAX 8490 MIN 149

04228845 HONEOYE LAKE NEAR HONEOYE, NY

LOCATION.--Lat 42°45'44", long 77°30'26", Ontario County, Hydrologic Unit 04130003, on east shore of Honeoye Lake, at Trident Marina on East Lake Road, 1.9 mi south of U.S. Highway 20A, and 2.0 mi southeast of Honeoye.

DRAINAGE AREA.--41.0 mi^2.

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to current year.

REVISED RECORD.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. July 10, 1963 to Sept. 28, 1967, nonrecording gage and Sept. 29, 1967 to Sept. 30, 1969, recording gage at datum 800.35 ft higher. Oct. 1, 1969 to Sept. 30, 1975, at datum 800.00 ft higher.

REMARKS.--Area of water surface, 2.71 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 806.91 ft June 23, 1972; minimum observed, 802.15 ft present datum, Oct. 5, 1965, Oct. 1, 2, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 804.42 ft May 3; minimum, 802.47 ft Sept. 29, 30.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	803.13	803.08	803.58	803.58	803.30	803.30	803.61	804.35	803.39	803.11	802.71	802.73
2	803.12	803.11	803.58	803.55	803.30	803.30	803.58	804.38	803.38	803.09	802.73	802.71
3	803.11	803.13	803.58	803.53	803.30	803.33	803.61	804.38	803.36	803.09	802.71	802.70
4	803.10	803.45	803.58	803.50	803.30	803.33	803.60	804.32	803.36	803.08	802.71	802.70
5	803.09	803.66	803.58	803.46	803.30	803.33	803.57	804.21	803.36	803.06	802.72	802.69
6	803.09	803.64	803.60	803.43	803.30	803.35	803.55	804.10	803.36	803.03	802.73	802.68
7	803.09	803.61	803.58	803.44	803.30	803.35	803.55	804.00	803.37	803.01	802.72	802.68
8	803.09	803.57	803.56	803.42	803.30	803.34	803.54	803.88	803.35	802.99	802.72	802.65
9	803.08	803.53	803.54	803.40	803.30	803.33	803.53	803.81	803.34	802.96	802.69	802.63
10	803.07	803.50	803.53	803.42	803.30	803.33	803.54	803.73	803.32	802.94	802.67	802.63
11	803.07	803.48	803.50	803.40	803.30	803.39	803.53	803.66	803.31	802.93	802.68	802.61
12	803.04	803.48	803.48	803.40	803.30	803.40	803.53	803.60	803.30	802.92	802.78	802.59
13	803.04	803.50	803.47	803.38	803.30	803.41	803.53	803.56	803.29	802.90	802.78	802.58
14	803.03	803.49	803.45	803.36	803.30	803.42	803.53	803.53	803.28	802.88	802.76	802.56
15	803.08	803.46	803.45	803.36	803.30	803.43	803.50	803.50	803.27	802.87	802.75	802.54
16	803.08	803.46	803.49	803.30	803.30	803.45	803.59	803.48	803.25	802.85	802.75	802.54
17	803.08	803.44	803.48	803.30	803.30	803.45	803.61	803.45	803.24	802.84	802.74	802.50
18	803.07	803.43	803.49	803.30	803.30	803.44	803.61	803.42	803.23	802.83	802.75	802.50
19	803.07	803.43	803.49	803.30	803.30	803.46	803.60	803.41	803.21	802.82	802.75	802.51
20	803.06	803.42	803.46	803.30	803.30	803.46	803.64	803.42	803.20	802.81	802.74	802.52
21	803.05	803.40	803.46	803.30	803.30	803.50	803.68	803.41	803.19	802.80	802.72	802.56
22	803.04	803.41	803.44	803.30	803.30	803.57	803.70	803.41	803.17	802.78	802.72	802.57
23	803.03	803.45	803.44	803.30	803.30	803.57	803.77	803.42	803.16	802.76	802.71	802.54
24	803.02	803.49	803.46	803.30	803.30	803.55	803.86	803.42	803.13	802.75	802.69	802.52
25	803.01	803.50	803.54	803.30	803.30	803.53	804.00	803.40	803.10	802.74	802.68	802.51
26	803.01	803.50	803.62	803.30	803.30	803.51	804.06	803.40	803.08	802.72	802.67	802.50
27	803.01	803.50	803.65	803.30	803.30	803.56	804.11	803.39	803.06	802.70	802.66	802.49
28	803.01	803.51	803.67	803.30	803.30	803.61	804.09	803.37	803.13	802.69	802.66	802.49
29	803.01	803.55	803.66	803.30	---	803.66	804.03	803.37	803.14	802.69	802.66	802.48
30	803.01	803.57	803.64	803.30	---	803.65	804.27	803.37	803.13	802.69	802.74	802.47
31	803.02	---	803.61	803.30	---	803.63	---	803.39	---	802.69	802.73	---
MEAN	803.06	803.46	803.54	803.37	803.30	803.45	803.70	803.66	803.25	802.87	802.72	802.58
MAX	803.13	803.66	803.67	803.58	803.30	803.66	804.27	804.38	803.39	803.11	802.78	802.73
MIN	803.01	803.08	803.44	803.30	803.30	803.30	803.50	803.37	803.06	802.69	802.66	802.47

CAL YR 1982 MEAN 803.39 MAX 804.12 MIN 802.89
WTR YR 1983 MEAN 803.25 MAX 804.38 MIN 802.47

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY

LOCATION.--Lat 42°57'26", long 77°35'21", Monroe County, Hydrologic Unit 04130003, on right bank 25 ft downstream from bridge on State Highway 65 at Honeoye Falls, and 15.3 mi upstream from mouth.

DRAINAGE AREA.--196 mi².

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1970, water-stage recorder at same site at datum 609.76 ft NGVD.

REMARKS.--Records fair except those for winter periods and those for periods of no gage-height record Oct. 1-11, 15-26, which are poor. Outlet of Honeoye Lake not controlled (see station 04228845). Some diversion from and regulation by Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low-water periods the village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gal/min (1.33 ft³/s). This pumped water enters creek upstream from gage.

AVERAGE DISCHARGE.--36 years (water years 1946-70, 1973-83), 120 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s Mar. 28, 1950, gage height, 6.42 ft datum then in use, from rating curve extended above 2,700 ft³/s by logarithmic plotting; minimum, 0.06 ft³/s Aug. 28, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 6.3 ft current datum, discharge, about 6,600 ft³/s, from rating curve extended above 2,700 ft³/s by logarithmic plotting.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 928 ft³/s Apr. 26, gage height, 2.95 ft; minimum daily discharge, 4.2 ft³/s Oct. 12-14; minimum recorded gage height 0.33 ft Oct. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	15	146	130	194	85	162	740	87	20	6.0	9.6
2	7.0	63	117	110	194	79	143	774	84	16	6.0	6.8
3	6.4	55	98	100	343	72	151	707	74	14	6.0	6.0
4	6.0	419	97	90	319	69	178	615	68	11	6.0	6.0
5	11	760	102	86	190	71	151	496	69	9.6	6.4	6.0
6	8.4	452	119	86	170	69	131	401	68	7.9	7.5	6.0
7	7.0	238	131	84	160	66	124	335	69	7.1	6.0	6.0
8	7.0	156	98	87	150	68	141	295	68	7.1	6.0	6.0
9	5.8	122	85	69	140	69	126	277	62	6.7	6.0	6.0
10	5.0	98	66	82	140	68	131	242	54	6.7	6.0	6.0
11	4.5	82	74	82	130	115	181	206	50	6.7	13	6.0
12	4.2	91	66	84	130	170	164	173	48	6.7	162	6.0
13	4.2	178	84	66	130	141	148	151	43	6.7	153	6.0
14	4.2	148	111	84	120	162	126	131	40	6.7	50	5.8
15	4.5	100	66	71	120	151	156	124	35	6.4	22	5.7
16	4.5	77	109	66	120	141	277	124	33	6.4	9.6	5.7
17	8.0	68	131	66	120	124	262	122	33	6.4	7.9	5.5
18	14	61	85	66	120	113	206	104	28	6.0	6.0	5.4
19	10	55	100	66	120	115	194	93	28	6.0	6.0	6.2
20	8.8	52	76	66	110	129	194	107	25	5.7	6.0	6.1
21	7.6	55	68	68	110	148	266	115	23	5.7	6.0	6.3
22	6.8	59	74	72	113	295	516	97	20	5.4	6.0	6.2
23	6.0	84	76	82	102	209	651	100	16	5.4	6.0	6.0
24	5.4	141	159	130	95	173	511	107	15	5.1	6.0	6.0
25	5.0	146	284	288	85	159	788	97	14	4.8	6.0	6.0
26	4.8	104	319	252	76	151	830	89	11	4.8	6.0	6.0
27	4.5	87	232	222	71	136	598	89	9.1	4.5	5.7	6.0
28	4.5	76	255	170	80	295	481	85	16	4.2	5.7	6.0
29	4.5	141	242	138	---	410	391	77	24	4.0	6.0	6.0
30	4.2	203	178	133	---	291	486	80	26	4.0	8.3	6.0
31	4.2	---	138	206	---	193	---	93	---	4.0	7.5	---
TOTAL	196.0	4386	3986	3402	3952	4537	8864	7246	1240.1	221.7	566.6	183.3
MEAN	6.32	146	129	110	141	146	295	234	41.3	7.15	18.3	6.11
MAX	14	760	319	288	343	410	830	774	87	20	162	9.6
MIN	4.2	15	66	66	71	66	124	77	9.1	4.0	5.7	5.4

CAL YR 1982 TOTAL 34038.7 MEAN 93.3 MAX 980 MIN 2.8
WTR YR 1983 TOTAL 38780.7 MEAN 106 MAX 830 MIN 4.0

04230380 OATKA CREEK AT WARSAW, NY

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, Hydrologic Unit 04130003, on right bank 400 ft downstream from bridge on Court Street, Warsaw.

DRAINAGE AREA.--39.1 mi².

PERIOD OF RECORD.--December 1963 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--19 years (water years 1965-83), 52.9 ft³/s, 18.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,010 ft³/s June 23, 1972, gage height, 9.75 ft, from rating curve extended above 1,770 ft³/s on basis of slope-area measurement of peak discharge; minimum, 0.90 ft³/s Aug. 1, 1965; minimum gage height, 0.96 ft Aug. 30-31, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 706 ft³/s June 17 at 1615 hours, gage height, 3.72 ft, no other peak above base of 690 ft³/s; minimum discharge, 1.4 ft³/s July 28; minimum gage height, 1.02 ft Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	40	61	52	32	39	87	106	28	19	27	7.3
2	6.6	69	49	49	97	37	87	193	27	17	26	5.9
3	6.6	32	45	42	235	37	191	145	25	16	16	4.5
4	5.9	412	47	45	81	36	112	128	28	14	21	4.5
5	5.9	165	45	50	66	37	77	76	27	13	22	6.6
6	4.5	73	71	36	59	36	62	57	30	13	23	5.9
7	5.9	81	50	40	45	36	75	46	30	12	18	9.9
8	7.3	93	40	37	41	35	71	46	26	12	17	6.6
9	6.6	57	37	45	37	34	57	46	24	12	17	4.5
10	6.6	44	33	46	34	44	85	38	23	11	18	3.0
11	9.9	50	28	121	32	62	79	34	22	9.9	40	3.0
12	9.9	160	25	56	29	50	89	32	21	9.0	209	3.0
13	8.2	100	25	47	29	47	62	31	20	9.0	47	3.0
14	9.0	70	27	36	30	61	52	30	20	8.2	29	3.0
15	66	54	39	34	31	75	81	32	19	7.3	23	3.0
16	29	43	95	32	34	50	66	40	21	6.6	20	4.5
17	15	35	47	27	42	42	54	31	119	5.9	17	7.3
18	13	30	53	24	47	50	53	29	39	4.5	16	7.3
19	11	28	45	23	47	144	54	29	23	5.9	15	6.6
20	11	26	39	26	52	97	57	30	20	6.6	13	7.3
21	9.9	27	30	24	54	79	81	28	19	9.9	13	11
22	9.9	31	30	25	52	73	95	29	18	13	13	11
23	9.0	68	30	30	59	61	67	33	17	7.3	12	9.9
24	9.0	62	179	52	46	61	81	28	16	7.3	9.9	9.0
25	9.0	54	207	49	40	54	124	27	16	4.5	8.2	6.6
26	8.2	39	191	44	39	54	97	37	16	3.7	7.3	4.5
27	8.2	48	95	39	45	95	63	29	17	4.5	7.3	4.5
28	8.2	68	129	35	40	202	46	27	85	3.0	5.9	3.7
29	8.2	94	73	32	---	162	42	30	33	13	5.9	3.7
30	8.2	84	61	31	---	95	92	43	22	13	8.2	3.7
31	9.0	---	53	40	---	85	---	30	---	13	12	---
TOTAL	342.9	2237	1979	1269	1475	2070	2339	1540	851	304.1	736.7	174.3
MEAN	11.1	74.6	63.8	40.9	52.7	66.8	78.0	49.7	28.4	9.81	23.8	5.81
MAX	66	412	207	121	235	202	191	193	119	19	209	11
MIN	4.5	26	25	23	29	34	42	27	16	3.0	5.9	3.0
CFSM	.28	1.91	1.63	1.05	1.35	1.71	2.00	1.27	.73	.25	.61	.15
IN.	.33	2.13	1.88	1.21	1.40	1.97	2.23	1.47	.81	.29	.70	.17

CAL YR 1982 **TOTAL** 17398.8 **MEAN** 47.7 **MAX** 471 **MIN** 1.4 **CFSM** 1.22 **IN** 16.55
WTR YR 1983 **TOTAL** 15318.0 **MEAN** 42.0 **MAX** 412 **MIN** 3.0 **CFSM** 1.07 **IN** 14.57

04230500 OATKA CREEK AT GARBUTT, NY

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from bridge on Union Street in Garbutt, 1.5 mi west of Scottsville, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--200 mi^2.

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1971: 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 560.86 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--38 years, 211 ft^3/s, 14.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft^3/s Mar. 31, 1960, gage height, 8.64 ft; minimum, 3.3 ft^3/s Sept. 11, 12, 1958; minimum gage height, 1.88 ft June 19, 1959, result of regulation; minimum daily discharge, 13 ft^3/s Oct. 30 to Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 970 ft^3/s May 3 at 0930 hours, gage height, 4.62 ft, no other peak above base of 1,500 ft^3/s; minimum, 29 ft^3/s Sept. 10-11, gage height, 2.28 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	43	392	256	214	170	408	456	190	92	43	45
2	34	133	269	240	205	167	359	672	166	73	38	43
3	34	193	214	220	569	157	424	872	147	64	36	41
4	34	359	195	170	620	150	527	773	135	59	37	40
5	33	741	194	140	460	151	499	617	129	56	40	39
6	33	739	206	160	270	160	373	488	145	51	38	40
7	34	561	233	174	210	150	322	406	161	48	36	42
8	34	307	200	174	190	145	347	353	152	47	34	40
9	34	278	169	160	170	137	326	331	126	46	36	39
10	34	206	140	140	150	140	318	311	112	46	34	40
11	40	166	120	176	130	202	412	274	98	45	41	36
12	37	164	110	297	130	304	390	249	93	45	164	37
13	34	301	100	220	120	264	374	231	84	43	407	37
14	34	367	100	160	120	240	308	221	82	44	358	37
15	36	277	110	160	140	248	281	218	76	43	155	36
16	51	192	183	140	155	258	331	230	76	43	87	36
17	107	162	294	120	199	209	308	244	78	42	66	37
18	65	147	210	98	229	182	263	218	162	42	57	36
19	50	136	140	94	232	235	248	207	224	42	51	35
20	43	127	146	94	231	426	260	213	138	42	46	37
21	41	120	140	94	231	397	339	215	102	41	44	39
22	38	119	136	94	237	350	435	207	84	41	44	39
23	37	139	137	100	233	290	411	216	76	40	43	36
24	37	182	197	160	232	240	344	234	70	40	42	36
25	36	295	534	264	209	230	446	212	64	39	41	36
26	36	238	713	220	170	210	559	197	61	38	41	36
27	36	177	675	170	140	260	478	207	58	38	40	36
28	36	158	636	150	150	567	382	197	78	37	40	36
29	36	215	521	130	---	820	311	177	97	38	40	36
30	36	391	396	150	---	765	314	178	137	40	52	36
31	36	---	295	187	---	564	---	222	---	41	53	---
TOTAL	1242	7633	8105	5112	6346	8788	11097	9846	3401	1446	2284	1139
MEAN	40.1	254	261	165	227	283	370	318	113	46.6	73.7	38.0
MAX	107	741	713	297	620	820	559	872	224	92	407	45
MIN	33	43	100	94	120	137	248	177	58	37	34	35
CFSM	.20	1.27	1.31	.83	1.14	1.42	1.85	1.59	.57	.23	.37	.19
IN.	.23	1.42	1.51	.95	1.18	1.63	2.06	1.83	.63	.27	.42	.21

CAL YR 1982 TOTAL 75001 MEAN 205 MAX 2000 MIN 33 CFSM 1.03 IN 13.95
WTR YR 1983 TOTAL 66439 MEAN 182 MAX 872 MIN 33 CFSM .91 IN 12.36

04230650 GENESEE RIVER AT BALLANTYNE BRIDGE, NEAR MORTIMER, NY

LOCATION.--Lat 43°05'32", long 77°40'50", Monroe County, Hydrologic Unit 04130003, on right bank 400 ft upstream from Ballantyne Bridge on State Highway 252, 1.6 mi west of Mortimer, and 2.8 mi upstream from Erie (Barge) Canal.

DRAINAGE AREA.--2,210 mi².

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORD.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--River regulated for operation of Erie (Barge) Canal, downstream powerplants, and at high stages by Mount Morris Lake (see station 04224000).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.33 ft Mar. 5, 1976; minimum, 8.20 ft Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.84 ft May 6; minimum, 9.21 ft Dec. 3.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.88	12.01	10.84	12.33	11.83	12.05	12.65	13.19	12.20	12.34	12.08	11.90
2	11.88	12.08	10.91	12.20	12.19	12.08	11.89	13.89	11.96	12.21	12.11	11.82
3	12.09	12.06	10.44	11.98	12.37	12.08	11.65	14.03	12.11	12.16	12.13	11.80
4	12.09	12.05	12.29	12.21	12.58	12.05	12.49	12.89	12.11	11.72	12.20	11.73
5	12.02	13.35	12.38	11.82	12.61	12.18	12.65	13.65	11.95	12.02	12.07	11.75
6	11.98	13.36	12.52	11.92	12.46	12.13	11.97	14.60	12.01	12.15	11.81	12.00
7	12.03	13.18	12.39	11.72	12.47	11.98	11.97	14.59	11.92	11.97	11.83	12.06
8	11.81	12.90	12.33	12.09	12.19	11.90	12.46	13.83	12.08	12.00	11.78	11.99
9	11.75	12.42	11.90	11.78	12.25	11.98	12.58	13.13	11.88	11.98	11.93	11.79
10	11.79	12.15	11.84	11.88	12.21	11.92	12.36	12.71	12.03	11.88	11.92	11.84
11	11.94	11.92	11.86	12.01	12.10	12.20	12.58	12.57	11.99	11.92	11.94	11.86
12	11.91	12.09	11.85	12.33	12.17	12.22	11.72	12.38	12.02	11.90	12.60	11.82
13	11.92	12.31	11.75	12.20	12.33	11.97	10.47	12.22	12.00	11.75	12.23	11.77
14	11.92	12.49	11.97	11.82	12.13	12.12	12.16	12.10	12.06	11.79	11.99	11.73
15	11.90	12.35	11.67	12.01	12.21	12.20	12.20	12.23	12.06	11.79	12.13	11.71
16	11.82	12.19	11.76	12.04	12.24	12.04	12.86	12.30	11.98	11.83	12.04	11.70
17	12.04	12.01	12.13	11.84	12.37	12.48	13.15	12.31	12.07	11.81	11.91	11.72
18	11.89	12.09	12.03	11.88	12.16	12.45	12.90	12.26	12.10	11.74	11.95	11.74
19	12.02	12.06	11.79	11.86	12.19	12.17	12.69	12.10	12.00	11.62	11.83	11.82
20	12.04	12.08	11.81	11.96	12.28	11.55	12.89	12.08	12.03	11.69	11.80	11.95
21	11.93	12.10	11.70	11.74	12.30	11.81	12.97	12.13	12.11	11.71	11.87	11.95
22	11.81	12.10	11.66	11.32	12.26	11.32	12.94	11.96	12.00	11.91	11.90	12.02
23	11.90	11.96	11.64	11.62	12.21	12.10	13.02	12.23	12.14	11.94	11.94	12.06
24	12.03	11.83	11.84	12.04	12.22	12.58	12.81	12.29	12.01	12.02	11.92	12.11
25	12.04	12.19	12.65	12.24	12.17	12.87	13.31	12.24	11.85	12.05	11.90	11.95
26	12.02	12.30	13.20	12.14	11.93	13.09	13.61	12.18	11.86	12.07	11.85	11.91
27	12.09	12.01	13.28	12.03	11.94	13.17	13.45	12.15	11.98	12.11	11.86	11.97
28	11.98	11.63	13.34	11.97	12.01	13.53	13.19	12.20	12.06	12.03	11.87	11.99
29	11.96	11.26	13.17	11.98	---	13.70	12.85	12.09	12.17	12.00	11.87	12.04
30	12.07	11.31	12.80	11.46	---	13.28	12.57	12.11	12.32	12.02	11.97	12.13
31	12.08	---	12.82	12.09	---	12.98	---	12.23	---	12.02	12.04	---
MEAN	11.96	12.19	12.08	11.95	12.23	12.33	12.57	12.67	12.04	11.94	11.98	11.89
MAX	12.09	13.36	13.34	12.33	12.61	13.70	13.61	14.60	12.32	12.34	12.60	12.13
MIN	11.75	11.26	10.44	11.32	11.83	11.32	10.47	11.96	11.85	11.62	11.78	11.70

CAL YR 1982 MEAN 12.25 MAX 15.48 MIN 10.35
WTR YR 1983 MEAN 12.15 MAX 14.60 MIN 10.44

04231000 BLACK CREEK AT CHURCHVILLE, NY

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, Hydrologic Unit 04130003, on right bank at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mi downstream from Black Creek Dam.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 551.88 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station.

AVERAGE DISCHARGE.--38 years, 114 ft^3/s, 11.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/s Mar. 31, 1960, gage height, 9.44 ft; minimum, 0.22 ft^3/s Aug. 19, 1970; minimum gage height, 0.93 ft Aug. 5-7, Sept. 15, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 615 ft^3/s May 3, gage height, 4.07 ft, no peak above base of 800 ft^3/s; minimum, 2.1 ft^3/s July 28, 29, gage height, 1.17 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	35	207	115	105	86	188	194	72	22	13	24
2	20	61	160	105	126	84	151	390	70	16	10	14
3	20	74	119	98	249	81	185	594	63	14	8.3	9.3
4	25	133	106	77	399	80	224	594	59	12	12	7.0
5	29	199	109	72	366	81	206	506	59	11	14	5.4
6	22	302	118	78	208	81	157	321	72	10	12	5.4
7	16	287	120	79	160	79	147	212	106	9.3	7.8	5.7
8	16	180	108	84	121	78	168	170	106	8.8	7.8	6.1
9	16	135	90	78	110	76	159	153	80	7.8	8.8	5.4
10	14	99	68	75	96	78	189	143	62	6.5	9.3	4.4
11	19	83	74	95	84	127	303	126	53	7.4	13	4.1
12	26	88	63	109	78	198	334	113	44	6.5	27	4.7
13	22	114	53	84	72	204	276	105	37	5.0	37	5.0
14	18	148	60	88	66	147	187	101	31	4.4	41	5.4
15	17	130	65	81	69	120	156	99	30	4.1	24	5.4
16	17	91	137	76	85	105	153	102	32	3.5	14	7.4
17	20	76	201	61	128	94	145	103	31	2.7	10	11
18	23	68	156	68	173	88	128	96	27	3.2	8.8	10
19	19	63	110	64	168	112	119	93	25	4.1	8.3	11
20	18	60	93	62	145	129	125	107	22	3.8	7.0	11
21	16	60	89	74	138	136	193	105	20	4.4	5.0	14
22	15	62	85	49	131	126	226	97	18	3.8	5.7	15
23	14	63	85	56	129	123	190	105	17	3.8	6.1	12
24	14	78	142	84	137	116	163	104	16	4.7	5.7	9.8
25	14	98	313	133	121	105	213	90	14	3.5	5.4	7.8
26	14	100	511	159	98	104	244	84	13	3.0	4.7	7.4
27	14	86	461	163	85	143	214	80	13	2.5	3.8	6.1
28	14	78	348	107	84	295	161	74	24	2.3	3.8	5.4
29	15	122	250	84	---	530	136	70	35	3.5	4.7	5.0
30	16	185	203	81	---	503	138	73	27	8.3	19	4.7
31	17	---	143	95	---	292	---	72	---	12	39	---
TOTAL	571	3358	4847	2734	3931	4601	5578	5276	1278	213.9	396.0	248.9
MEAN	18.4	112	156	88.2	140	148	186	170	42.6	6.90	12.8	8.30
MAX	31	302	511	163	399	530	334	594	106	22	41	24
MIN	14	35	53	49	66	76	119	70	13	2.3	3.8	4.1
CFSM	.14	.86	1.20	.68	1.08	1.14	1.43	1.31	.33	.05	.10	.06
IN.	.16	.96	1.39	.78	1.12	1.32	1.60	1.51	.37	.06	.11	.07

CAL YR 1982 TOTAL 40199.2 MEAN 110 MAX 1770 MIN 5.4 CFSM .85 IN 11.50
WTR YR 1983 TOTAL 33032.8 MEAN 90.5 MAX 594 MIN 2.3 CFSM .70 IN 9.45

04232000 GENESEE RIVER AT ROCHESTER, NY

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from Rochester Gas and Electric Corp. plant 5, 100 ft upstream from bridge on Driving Park Avenue in Rochester, and 6.4 mi upstream from mouth.

DRAINAGE AREA.--2,467 mi^2.

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68.

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft National Geodetic Vertical Datum of 1929 (247.00 ft, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 mi upstream at datum 506.85 ft, Barge Canal datum. December 1919 to Apr. 4, 1927, water-stage recorder in plant 5, and Apr. 4, 1927 to June 19, 1956, at present site at datum 3.00 ft higher.

REMARKS.--Records fair. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 mi upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--76 years, (water years 1905-18, 1921-83), 2,794 ft^3/s, 15.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,300 ft^3/s Mar. 30, 1916, gage height, 15.3 ft site and datum then in use; maximum at present site, 34,400 ft^3/s Mar. 19, 1942; maximum gage height, 17.08 ft Apr. 2, 1940, present datum; minimum discharge, less than 10 ft^3/s, occurred during low-water periods when powerplant was shut down; minimum daily, 91 ft^3/s Jan. 9, 29, Feb. 1, 8, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge on Mar. 18, 1865, was about 54,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft^3/s May 7, gage height, 11.11 ft, result of regulation; minimum, 236 ft^3/s Dec. 2, gage height, 1.07 ft, result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2770	1360	3030	4580	2430	2370	4710	6830	2910	3020	824	919
2	2960	1560	2320	3880	2660	2450	3960	9030	2610	2880	870	917
3	2990	1670	2890	3390	3610	2380	3900	9490	2030	2750	905	941
4	3250	3240	4170	2480	4720	2390	4640	6910	2140	1990	1190	952
5	3060	7520	4660	2470	3880	2100	4690	7390	2180	1140	1880	869
6	3200	7190	4530	2310	3410	2400	4420	10800	2350	1370	1660	1050
7	2610	5730	4540	2190	3360	2380	3610	11200	2440	1310	1120	1220
8	1930	4900	4250	2300	3130	2320	4040	8830	2150	1140	1020	1180
9	1700	4280	3510	2450	2710	2130	4460	6600	2300	1190	868	1100
10	1800	2540	2230	1830	2560	2360	4450	5120	1800	1190	895	939
11	2190	2200	1880	2300	2480	2930	4530	4480	1630	1150	1140	964
12	2350	1730	1730	2980	2520	4420	4170	3740	1510	1120	4250	967
13	2020	2480	1510	3160	2410	3940	2800	3370	1590	1100	4240	906
14	1940	4110	1340	2410	2650	3130	2430	3010	870	1070	2610	851
15	1880	4000	2120	2240	2530	3370	4060	2710	1290	970	1510	832
16	1930	3570	2350	2210	2610	3220	5230	2870	950	930	1490	798
17	1990	2420	2950	1960	2760	3760	5880	3280	1910	942	1410	827
18	2140	2430	3370	1700	2980	4560	5510	3020	1830	1050	1130	817
19	1700	1700	2440	1330	2890	4670	5140	2930	2130	1060	1060	682
20	1740	1710	2250	1760	2880	4360	4960	2630	1320	883	590	724
21	1700	2180	2230	1630	2880	3190	5380	2630	1490	800	590	862
22	1250	2270	1940	1260	2850	3400	5800	2780	1410	750	813	776
23	1090	2830	2240	1900	2810	3450	5740	2350	1430	822	907	785
24	1380	3770	2460	2300	2810	4250	5520	2870	1260	770	879	855
25	1410	4190	4380	3060	2780	4830	6510	3510	890	838	842	976
26	1070	4330	6440	2970	2670	5630	8400	3060	920	832	780	793
27	1120	3980	6580	2930	2370	5920	7360	2840	730	909	737	773
28	1380	3200	6820	2380	2480	7200	6650	2290	1190	864	718	772
29	1070	3380	6600	2370	---	8120	5620	2520	960	794	712	770
30	1020	4850	5850	2100	---	6990	5040	2300	2420	864	828	987
31	965	---	4960	2410	---	5490	---	2640	---	782	1130	---
TOTAL	59605	101320	108570	75240	80830	120110	149610	144030	50640	37280	39598	26804
MEAN	1923	3377	3502	2427	2887	3875	4987	4646	1688	1203	1277	893
MAX	3250	7520	6820	4580	4720	8120	8400	11200	2910	3020	4250	1220
MIN	965	1360	1340	1260	2370	2100	2430	2290	730	750	590	682

CAL YR 1982 TOTAL 1252457 MEAN 3431 MAX 13300 MIN 755
WTR YR 1983 TOTAL 993637 MEAN 2722 MAX 11200 MIN 590

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY
(National stream-quality accounting network station)

WATER QUALITY RECORDS

LOCATION.--Lat 43°13'26", long 77°36'59", Monroe County, Hydrologic Unit 04130003, at Charlotte Docks, at the Rochester Cement Corp., in Rochester, 0.4 mi upstream from Rattlesnake Point, 1.6 mi upstream from Stutson Street Bridge, and 3.9 mi downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,457 mi^2 at station 04232000.

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL DATA: 1971-72 (a), 1974 (b), 1975-82 (c), 1983(b).
MINOR ELEMENTS DATA: 1971-73 (a), 1974-83 (b).
ORGANIC DATA: OC--1974 (a), 1975 (b), 1977 (b), 1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1974 (b), 1975-82 (c), 1983(b).
BIOLOGICAL DATA:
Bacteria--1974 (b), 1975-82 (c), 1983(b).
Phytoplankton--1974 (b), 1975-77 (c), 1978-81 (b).
Periphyton--1975-80 (b).
SEDIMENT DATA: 1974 (b), 1975-82 (c), 1983(b).

REMARKS.--Water-discharge data are based on records for station 04232000 Genesee River at Rochester.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT										
21...	1100	1580	915	7.3	13.5	16	770	10.5	100	--
APR										
08...	1030	3550	528	7.7	9.0	15	765	9.8	85	170
JUL										
07...	0930	1080	517	6.9	25.0	20	770	5.8	70	440
AUG										
11...	0930	980	817	7.0	27.0	3.7	760	3.9	49	3200

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT										
21...	390	280	146	86	16	92	2.9	136	130	140
APR										
08...	930	180	74	53	12	37	2.0	109	66	66
JUL										
07...	K90	170	74	51	10	34	2.9	95	67	55
AUG										
11...	420	230	109	67	14	83	4.7	117	98	130

K results based on colony count outside the ideal range (non-ideal colony count).

04232006 GENESEE RIVER AT CHARLOTTE DOCKS, ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 21...	.20	2.0	534	552	1.6	.140	1.40	.080	.060	.020
APR 08...	<.10	2.4	308	305	.99	.160	.40	.060	.010	.010
JUL 07...	.20	3.3	311	282	.64	.280	1.00	.120	.090	.070
AUG 11...	.20	1.7	519	471	.61	.620	1.10	.070	.060	.040

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 21...	40	2	68	<1	<1	<1	<3	10	28	<1
APR 08...	20	1	45	<1	<1	2	<3	2	26	3
JUL 07...	30	1	69	<1	<1	<1	<3	8	18	1
AUG 11...	20	3	100	<1	1	<1	<3	9	23	2

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 21...	18	56	.5	<10	5	<1	<1	1200	<6.0	19
APR 08...	7	34	.1	<10	1	<1	<1	530	<6.0	20
JUL 07...	15	57	<.1	<10	<1	<1	<1	540	<6.0	18
AUG 11...	36	71	<.1	<10	3	<1	<1	760	<6.0	59

04232006 GENESEE RIVER AT CHARLOTTE DOCKS, ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT								
21...	1105	40	18.0	3.0	915	7.3	13.5	10.6
21...	1110	40	18.0	7.0	915	7.3	13.5	10.5
21...	1115	40	18.0	12.0	915	7.3	13.5	10.4
21...	1120	40	18.0	15.0	917	7.3	13.5	10.4
21...	1125	80	18.0	3.0	913	7.3	13.5	10.5
21...	1130	80	18.0	7.0	915	7.3	13.5	10.4
21...	1135	80	18.0	12.0	915	7.3	13.5	10.4
21...	1140	80	18.0	15.0	915	7.3	13.5	10.3
21...	1145	150	14.0	3.0	902	7.3	13.5	10.5
21...	1150	150	14.0	7.0	913	7.3	13.5	10.3
21...	1155	150	14.0	12.0	915	7.3	13.5	10.2
21...	1200	260	10.0	3.0	913	7.3	13.5	10.5
21...	1205	260	10.0	7.0	915	7.3	13.5	10.2
APR								
08...	1035	40	18.0	3.0	527	7.8	9.0	9.8
08...	1040	40	18.0	7.0	525	7.8	9.0	9.8
08...	1045	40	18.0	12.0	526	7.8	9.0	9.9
08...	1050	40	18.0	18.0	525	7.8	9.0	9.9
08...	1055	100	14.0	3.0	528	7.7	9.0	9.9
08...	1100	100	14.0	7.0	528	7.7	9.0	9.7
08...	1105	100	14.0	10.0	528	7.7	9.0	9.7
08...	1110	100	14.0	14.0	528	7.7	9.0	9.8
08...	1115	180	10.0	3.0	529	7.6	9.0	9.7
08...	1120	180	10.0	7.0	529	7.6	9.0	9.7
08...	1125	180	10.0	10.0	529	7.6	9.0	9.8
JUL								
07...	0935	40	23.0	3.0	514	6.9	25.0	5.8
07...	0940	40	23.0	7.0	516	6.9	25.0	5.5
07...	0945	40	23.0	14.0	493	6.8	24.0	4.6
07...	0950	40	23.0	20.0	440	6.8	21.5	3.7
07...	0955	100	17.0	3.0	516	6.8	25.5	5.8
07...	1000	100	17.0	7.0	518	6.7	25.0	5.5
07...	1005	100	17.0	12.0	516	6.7	25.0	5.2
07...	1010	100	17.0	15.0	513	6.7	25.0	5.1
07...	1015	180	13.0	3.0	522	7.0	25.5	5.8
07...	1020	180	13.0	7.0	522	6.9	25.0	5.5
07...	1025	180	13.0	10.0	522	6.7	25.0	5.5
AUG								
11...	0935	40	20.0	3.0	812	7.0	27.0	3.8
11...	0940	40	20.0	7.0	814	7.0	27.0	3.8
11...	0945	40	20.0	12.0	814	7.0	27.0	3.7
11...	0950	40	20.0	18.0	814	7.0	27.0	3.6
11...	0955	100	12.0	3.0	819	7.1	27.0	3.9
11...	1000	100	12.0	7.0	819	7.0	27.0	3.7
11...	1005	100	12.0	10.0	819	7.0	27.0	3.7
11...	1010	180	11.0	3.0	820	7.0	27.0	4.0
11...	1015	180	11.0	7.0	821	7.0	27.0	3.8
11...	1020	180	11.0	10.0	820	7.0	27.0	3.7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT				
21...	1100	1580	24	102
APR				
08...	1030	3550	32	307
JUL				
07...	0930	1080	11	32
AUG				
11...	0930	980	11	29

04232040 IRONDEQUOIT CREEK NEAR PITTSFORD, NY

LOCATION.--Lat 43°03'15", long 77°29'28", Monroe County, Hydrologic Unit 04140101, on right bank 140 ft upstream from bridge on Thornell Road, 0.9 mi south of creek passage under Erie (Barge) Canal, and 2.7 mi southeast of Pittsford.

DRAINAGE AREA.--44.4 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1961-62, 1964-66, 1968, and annual maximum, water years 1962-63, 1965-66, 1968-70, 1972. March 1980 to current year.

REVISED RECORDS.--WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder. Prior to March 1980, nonrecording gage and crest-stage gage at site 150 ft downstream at same datum. Altitude of gage is 405 ft, from Corps of Engineers river-profile map.

REMARKS.--Records good except those above 350 ft^3/s, which are fair. Unpublished water-quality records are available in files of Monroe County Health Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,140 ft^3/s Mar. 12, 1962, gage height, 8.6 ft; minimum discharge measured, 8.10 ft^3/s Sept. 17, 1964; minimum gage height at present site, 2.98 ft Sept. 12, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 359 ft^3/s Aug. 12 at 1715 hours, gage height, 6.32 ft, no peak above base of 380 ft^3/s; minimum discharge, 9.7 ft^3/s July 28; minimum gage height, 2.98 ft Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	28	39	32	42	32	38	78	35	18	28	24
2	15	35	34	31	50	30	35	116	30	17	19	20
3	14	28	31	30	117	29	56	136	26	17	14	20
4	14	118	33	26	79	29	53	97	26	16	16	19
5	14	119	34	25	45	32	42	70	27	15	51	19
6	14	52	40	24	39	30	36	58	37	14	21	23
7	14	35	37	26	33	30	41	50	42	14	16	20
8	15	29	30	27	29	30	47	50	30	15	14	17
9	15	26	29	24	27	31	38	55	25	14	14	16
10	15	24	25	26	27	33	51	47	24	14	15	16
11	17	24	25	31	25	77	73	43	22	13	32	15
12	18	33	24	32	23	80	86	40	21	13	326	15
13	16	61	22	24	21	54	51	37	20	12	162	15
14	16	40	23	26	21	46	40	35	18	12	45	15
15	19	31	27	26	26	39	47	35	18	11	30	15
16	20	27	51	26	32	35	73	42	17	11	25	16
17	20	25	44	22	42	32	53	37	19	11	22	18
18	18	24	30	21	43	30	43	33	28	12	21	17
19	18	24	28	20	40	32	42	34	21	11	20	21
20	17	23	29	19	37	33	46	45	19	11	19	41
21	16	25	33	18	38	49	86	36	17	12	17	33
22	15	29	29	19	37	99	186	36	17	13	20	36
23	15	34	30	26	35	51	146	53	17	12	19	24
24	14	40	50	51	35	40	76	57	16	12	17	21
25	15	37	70	64	32	31	188	39	16	12	16	19
26	15	31	74	45	30	27	214	36	15	11	16	18
27	15	30	49	29	31	37	80	33	15	11	15	18
28	16	28	78	25	32	76	62	30	35	11	16	18
29	16	53	55	22	---	100	55	29	28	12	16	18
30	15	53	38	28	---	55	63	36	20	14	21	17
31	17	---	33	50	---	43	---	34	---	15	39	---
TOTAL	493	1166	1174	895	1068	1372	2147	1557	701	406	1122	604
MEAN	15.9	38.9	37.9	28.9	38.1	44.3	71.6	50.2	23.4	13.1	36.2	20.1
MAX	20	119	78	64	117	100	214	136	42	18	326	41
MIN	14	23	22	18	21	27	35	29	15	11	14	15
CFSM	.36	.88	.85	.65	.86	1.00	1.61	1.13	.53	.30	.82	.45
IN.	.41	.98	.98	.75	.89	1.15	1.80	1.30	.59	.34	.94	.51

CAL YR 1982 TOTAL 12590 MEAN 34.5 MAX 414 MIN 11 CFSM .78 IN 10.55
WTR YR 1983 TOTAL 12705 MEAN 34.8 MAX 326 MIN 11 CFSM .78 IN 10.64

04232046 THOMAS CREEK AT FAIRPORT, NY

LOCATION.--Lat 43°06'22, long 77°27'44", Monroe County, Hydrologic Unit 04140101, on right bank 48 ft upstream from culvert on Foreman Center Road, 0.5 mi northwest of Fairport, and 0.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--28.5 mi^2, flow from 0.86 mi^2 noncontributing.

PERIOD OF RECORD.--March 1980 to current year.

REVISED RECORDS.--WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 403 ft, from topographic map.

REMARKS.--Records fair. Unpublished water-quality records are available in files of Monroe County Health Department. Discharge subsequent to July 20, 1983 includes undetermined diversion (maximum 8 ft^3/s) from Erie (Barge) Canal upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 161 ft^3/s Feb. 20, 1981, gage height, 2.36 ft; maximum gage height, 3.62 ft Jan. 12, 1982 (ice jam); minimum discharge, 2.0 ft^3/s Aug. 19, 20, Sept. 10, 1982; minimum gage height, 1.22 ft June 7, 8, 13, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft^3/s Apr. 26 at 0215 hours, gage height, 2.27 ft, no other peak above base of 140 ft^3/s; minimum discahrge, 2.2 ft^3/s Oct. 24, Dec. 14; minimum gage height, 1.26 ft Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	12	14	14	19	8.1	19	35	22	5.3	14	7.5
2	3.0	11	7.6	12	28	8.1	16	63	19	4.9	10	6.1
3	2.7	7.6	5.8	10	61	7.6	25	109	16	4.6	7.9	5.8
4	3.0	65	6.2	8.6	62	7.6	31	99	15	4.2	8.0	5.8
5	2.7	49	5.8	6.7	38	7.6	24	69	13	4.1	8.3	6.3
6	2.7	26	14	6.7	26	7.6	18	39	22	4.3	7.0	5.8
7	3.0	14	10	7.1	19	7.6	18	26	23	4.1	6.7	6.2
8	4.4	8.6	7.6	7.1	13	8.1	19	24	18	4.4	6.8	5.7
9	2.7	7.1	5.8	6.2	8.1	10	17	23	14	4.8	7.3	5.6
10	2.5	5.8	4.2	6.2	5.8	12	20	23	11	4.4	6.8	5.7
11	4.7	6.2	4.1	9.8	5.4	33	24	20	8.6	4.3	18	5.6
12	4.7	14	3.4	9.2	4.7	48	22	19	7.2	4.3	62	5.6
13	3.4	24	2.7	7.1	4.1	36	17	18	6.3	4.1	22	5.7
14	3.4	14	2.5	5.8	5.4	26	13	18	5.7	4.0	12	5.8
15	5.1	9.8	6.0	6.2	6.2	20	17	20	5.3	4.1	8.8	5.6
16	5.4	7.1	23	5.8	8.6	16	26	24	5.1	3.8	7.5	6.5
17	5.1	5.8	21	4.7	19	14	26	23	11	3.7	6.9	6.4
18	4.7	5.4	14	4.1	25	12	19	22	15	3.7	6.8	5.6
19	3.7	5.1	8.1	3.7	21	13	17	28	10	3.3	6.7	7.4
20	3.4	4.7	7.6	3.0	16	14	20	48	7.0	6.9	6.7	8.4
21	3.4	5.8	7.6	2.5	16	33	36	44	5.5	11	6.7	10
22	3.4	7.1	7.1	2.7	14	53	63	40	5.4	11	8.3	10
23	2.7	7.6	8.1	3.7	14	44	96	47	5.6	9.9	7.6	6.2
24	2.5	12	19	12	13	28	84	42	5.3	9.4	6.9	5.6
25	3.4	9.8	44	31	12	21	106	34	4.9	8.9	6.7	5.2
26	3.4	20	51	36	9.8	17	149	32	4.9	8.4	6.7	4.9
27	3.7	27	38	22	7.6	26	114	28	4.8	7.9	6.4	4.9
28	3.7	24	37	14	8.1	47	65	26	12	8.3	5.8	4.7
29	4.7	29	33	13	---	53	35	24	9.3	7.8	6.0	4.6
30	3.4	25	25	13	---	44	30	26	7.1	9.7	8.8	4.5
31	3.4	---	17	18	---	46	---	24	---	11	9.7	---
TOTAL	111.4	469.5	460.2	311.9	489.8	728.3	1186	1117	319.0	190.6	319.8	183.7
MEAN	3.59	15.7	14.8	10.1	17.5	23.5	39.5	36.0	10.6	6.15	10.3	6.12
MAX	5.4	65	51	36	62	53	149	109	23	11	62	10
MIN	2.5	4.7	2.5	2.5	4.1	7.6	13	18	4.8	3.3	5.8	4.5
CFSM	.13	.55	.52	.35	.61	.83	1.39	1.26	.37	.22	.36	.22
IN.	.15	.61	.60	.41	.64	.95	1.55	1.46	.42	.25	.42	.24

CAL YR 1982 TOTAL 4966.0 MEAN 13.6 MAX 123 MIN 2.2 CFSM .48 IN 6.48
WTR YR 1983 TOTAL 5887.2 MEAN 16.1 MAX 149 MIN 2.5 CFSM .57 IN 7.68

04232047 IRONDEQUOIT CREEK AT LINDEN AVENUE, EAST ROCHESTER, NY

LOCATION.--Lat 43°07'16", long 77°28'36", Monroe County, Hydrologic Unit 04140101, on left bank 200 ft upstream from bridge on Linden Avenue, 2.2 mi upstream from Allen Creek, and 7.8 mi upstream from mouth.

DRAINAGE AREA.--101 mi², flow from 4.95 mi² noncontributing.

PERIOD OF RECORD.--August 1973 to current year.

REVISED RECORDS.--WDR NY-78-1: 1977. WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.46 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Prior to 1980, flow of undetermined magnitude diverted from Erie (Barge) Canal into Thomas Creek, a tributary upstream from station; diversion resumed July 20, 1983.

AVERAGE DISCHARGE.--10 years, 93.9 ft³/s, 12.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s Oct. 29, 1974, gage height, 15.64 ft result of dewatering of Erie (Barge) Canal through accidental break in canal wall at Bushnell Basin; minimum, 18 ft³/s July 19, 1981, gage height, 11.15 ft .

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 570 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 25	2345	*596	*13.77	Aug. 12	1300	585	13.74

Minimum discharge, 20 ft³/s July 17, 18, 19, 20, gage height, 11.15 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	58	73	61	87	58	92	182	65	32	63	49
2	27	61	59	59	117	53	82	297	58	29	46	40
3	26	51	53	56	229	49	143	384	52	28	31	37
4	26	249	57	49	184	49	129	274	51	27	31	36
5	26	218	57	46	98	52	105	187	52	26	83	35
6	26	100	82	45	88	50	88	136	92	25	40	37
7	26	65	65	48	74	49	96	111	88	24	31	36
8	30	53	53	49	64	49	100	109	65	24	28	33
9	26	47	48	44	56	53	85	114	53	25	30	31
10	25	43	42	48	54	58	111	99	47	24	27	29
11	31	45	44	59	54	142	142	87	43	24	81	29
12	31	73	41	60	49	157	147	79	40	23	516	28
13	28	109	36	47	43	107	107	75	37	22	265	28
14	27	73	39	51	48	85	84	71	36	22	86	29
15	33	56	47	50	52	80	107	73	34	21	58	30
16	35	49	103	51	61	67	148	79	33	21	48	35
17	35	45	89	46	85	59	122	70	52	20	42	35
18	31	43	62	41	88	56	98	63	61	21	41	32
19	29	41	55	44	79	60	89	76	45	21	40	41
20	28	40	51	41	74	61	107	104	38	22	37	72
21	27	45	54	36	73	121	194	81	34	29	35	67
22	26	50	50	38	71	195	374	82	32	31	46	66
23	26	54	51	66	69	110	378	99	30	27	40	43
24	25	71	85	102	67	80	255	102	28	26	36	37
25	26	64	139	134	63	66	437	76	28	26	33	35
26	27	61	147	109	58	58	524	74	28	25	32	33
27	26	66	107	80	54	90	293	65	28	25	32	32
28	27	65	141	68	59	184	189	59	68	25	32	31
29	27	102	116	52	---	246	145	57	49	32	33	29
30	26	99	83	62	---	162	153	68	35	33	49	28
31	27	---	67	93	---	112	---	64	---	49	68	---
TOTAL	865	2196	2196	1831	2190	2818	5124	3497	1402	809	2060	1123
MEAN	27.9	73.2	70.8	59.1	78.2	90.9	171	113	46.7	26.1	66.5	37.4
MAX	35	249	147	134	229	246	524	384	92	49	516	72
MIN	25	40	36	36	43	49	82	57	28	20	27	28
CFSM	.28	.73	.70	.59	.77	.90	1.69	1.12	.46	.26	.66	.37
IN.	.32	.81	.81	.67	.81	1.04	1.89	1.29	.52	.30	.76	.41

CAL YR 1982 TOTAL 23320 MEAN 63.9 MAX 680 MIN 22 CFSM .63 IN 8.59
WTR YR 1983 TOTAL 26111 MEAN 71.5 MAX 524 MIN 20 CFSM .71 IN 9.62

04232050 ALLEN CREEK NEAR ROCHESTER, NY

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1.3 mi upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi^2, flow from 3.5 mi^2 noncontributing.

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD NY 1974: 1972(M), 1973(M, P). WDR NY-76-1: 1960-75 (M, P), 1960-63, 1972-74.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record Aug. 11-22, which are fair. Discharge prior to January 1980 included undetermined diversion (maximum 20 ft^3/s) from Erie (Barge) Canal upstream from station. January 1980 to present, diversion reduced to a maximum of 3 ft^3/s for use by Oak Hill County Club.

AVERAGE DISCHARGE.--23 years (water years 1961-83), 32.7 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft^3/s May 17, 1974, gage height, 7.42 ft, from rating curve extended above 1,000 ft^3/s on basis of contracted-opening measurement of peak flow and step-backwater analysis; minimum daily, 1.7 ft^3/s Jan. 24, 1963; minimum gage height, 1.16 ft Feb. 19, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	2245	451	4.06	Aug. 12	Unknown	*625	*4.36
May 3	0130	456	4.07				

Minimum discharge, 5.2 ft^3/s Jan. 9, gage height, 1.96 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	39	14	11	19	23	20	94	18	11	31	15
2	7.7	30	12	10	54	21	17	235	13	11	15	12
3	7.8	20	11	10	77	19	76	206	11	10	12	11
4	7.5	207	14	11	45	19	39	82	13	9.9	22	10
5	7.2	64	12	12	25	20	31	45	13	15	60	9.8
6	7.0	25	36	14	19	19	40	31	49	11	16	10
7	7.3	17	16	10	17	19	43	25	25	10	12	15
8	11	15	12	8.8	15	19	34	36	16	11	11	11
9	7.8	14	21	7.5	12	21	26	32	13	11	16	10
10	7.1	13	21	8.4	8.6	26	44	22	12	10	10	12
11	16	16	16	18	9.0	97	39	19	11	9.9	15	10
12	10	52	13	12	9.8	65	30	17	9.8	9.9	300	9.6
13	8.1	41	13	8.2	9.8	43	24	15	8.8	11	40	9.2
14	7.6	20	13	7.8	11	32	23	14	8.6	11	22	13
15	9.7	16	17	8.6	13	28	58	21	8.6	11	17	11
16	13	14	74	8.4	24	23	50	25	9.0	11	15	15
17	12	14	32	7.8	33	21	34	16	29	10	13	13
18	8.7	13	19	7.2	28	21	29	14	21	10	12	12
19	7.8	12	16	6.6	22	28	26	25	15	11	11	19
20	8.7	12	19	6.2	20	27	47	31	13	11	11	22
21	9.7	16	20	6.0	19	86	137	18	13	16	11	38
22	7.8	18	18	5.8	18	70	187	19	12	15	18	19
23	7.2	15	18	28	18	36	118	21	11	12	13	12
24	6.9	27	58	55	16	26	110	16	11	12	11	11
25	7.0	15	58	58	15	21	298	14	11	11	10	11
26	7.1	13	42	31	14	18	205	22	11	11	10	11
27	6.9	12	26	15	13	54	84	15	11	11	9.9	11
28	7.1	16	43	11	13	100	64	13	43	11	11	11
29	6.9	42	24	10	---	88	51	13	15	16	12	10
30	6.9	23	16	15	---	35	62	21	13	17	37	10
31	8.0	---	13	23	---	25	---	20	---	49	33	---
TOTAL	260.8	851	737	451.3	597.2	1150	2046	1197	467.8	396.7	836.9	393.6
MEAN	8.41	28.4	23.8	14.6	21.3	37.1	68.2	38.6	15.6	12.8	27.0	13.1
MAX	16	207	74	58	77	100	298	235	49	49	300	38
MIN	6.9	12	11	5.8	8.6	18	17	13	8.6	9.9	9.9	9.2

CAL YR 1982 TOTAL 7948.9 MEAN 21.8 MAX 396 MIN 4.9
WTR YR 1983 TOTAL 9385.3 MEAN 25.7 MAX 300 MIN 5.8

0423205010 IRONDEQUOIT CREEK AT BLOSSOM ROAD, ROCHESTER, NY

LOCATION.--Lat 43°08'50", long 77°30'48", Monroe County, Hydrologic Unit 04140101, on right bank 120 ft downstream from bridge on Blossom Road, 1.6 mi east of Rochester, 2.5 mi downstream from Allen Creek, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--143 mi^2, flow from 8.45 mi^2 noncontributing.

PERIOD OF RECORD.--Occasional discharge measurements water years 1977-80. December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 246.31 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair except those above 300 ft^3/s and those for winter periods, which are poor. Discharge includes undetermined diversion from Erie (Barge) Canal. Water-quality sampling site operated by Monroe County Department of Health; data in files of that organization.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s Feb. 20, 1981; maximum gage height, 7.66 ft Feb. 20, 1981, Mar. 14, 1982; minimum discharge, 28 ft^3/s Sept. 11, 14, 1982, gage height, 1.69 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 809 ft^3/s Apr. 26 at 0400 hours, gage height, 7.38 ft, from graph based on gage readings, no peak above base of 900 ft^3/s; minimum discharge, 30 ft^3/s July 18; minimum gage height 1.76 ft Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	102	113	94	124	90	110	271	102	48	104	74
2	36	99	94	90	175	85	113	489	90	43	76	60
3	36	69	82	86	310	77	209	618	80	41	50	55
4	35	412	86	81	262	76	160	422	78	40	51	53
5	35	296	82	75	161	80	137	277	80	44	142	50
6	35	145	133	75	129	77	144	207	148	40	65	52
7	35	97	99	74	110	76	173	170	130	38	47	56
8	46	80	80	74	98	76	196	167	97	37	42	51
9	36	70	81	68	88	83	146	172	80	40	52	47
10	35	65	79	68	84	87	167	147	69	38	41	47
11	53	68	74	92	80	228	195	132	64	36	111	45
12	47	119	70	89	72	240	184	121	59	35	672	43
13	39	164	63	71	66	170	149	113	55	37	377	43
14	38	109	66	74	66	131	122	106	51	36	147	47
15	46	86	74	74	80	119	160	109	48	36	100	47
16	52	75	190	74	97	102	189	133	47	35	84	54
17	55	69	145	68	136	91	162	110	77	34	78	57
18	44	66	101	64	134	85	134	99	101	33	74	50
19	40	53	89	68	118	92	130	111	68	34	68	57
20	40	45	84	62	108	96	130	153	57	34	62	103
21	42	51	89	56	107	180	160	118	52	48	60	103
22	38	56	83	60	103	300	430	112	47	57	73	93
23	37	61	85	120	100	190	500	137	45	42	64	62
24	35	104	157	207	99	134	390	131	45	41	56	53
25	36	131	211	212	91	113	620	109	44	41	53	50
26	38	105	213	160	87	102	740	114	44	39	52	48
27	36	100	158	120	83	143	490	100	43	37	50	47
28	36	95	203	98	84	265	309	90	123	36	49	48
29	36	163	171	84	---	328	240	86	81	50	53	47
30	35	148	127	90	---	190	239	108	56	55	85	44
31	35	---	103	129	---	105	---	101	---	102	107	---
TOTAL	1226	3303	3485	2857	3252	4211	7228	5333	2161	1307	3145	1686
MEAN	39.5	110	112	92.2	116	136	241	172	72.0	42.2	101	56.2
MAX	55	412	213	212	310	328	740	618	148	102	672	103
MIN	35	45	63	56	66	76	110	86	43	33	41	43
CFSM	.28	.77	.78	.65	.81	.95	1.69	1.20	.50	.30	.71	.39
IN.	.32	.86	.91	.74	.85	1.10	1.88	1.39	.56	.34	.82	.44

CAL YR 1982 TOTAL 35023 MEAN 96.0 MAX 833 MIN 30 CFSM .67 IN 9.11
WTR YR 1983 TOTAL 39194 MEAN 107 MAX 740 MIN 33 CFSM .75 IN 10.20

04232100 STERLING CREEK AT STERLING, NY

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, Hydrologic Unit 04140101, on right bank at Sterling, 25 ft downstream from bridge on State Highway 104A, 1.8 mi southwest of Sterling Valley, and 1.9 mi upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 mi^2.

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 264.69 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--26 years (water years 1958-83), 66.5 ft^3/s, 20.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,370 ft^3/s Mar. 22, 1980, gage height, 5.99 ft, from rating curve extended above 960 ft^3/s, minimum, 0.32 ft^3/s Sept. 14, 1966, gage height, 1.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft^3/s Apr. 24 at 1300 hours, gage height, 4.57 ft, no other peak above base of 630 ft^3/s; minimum, 1.7 ft^3/s July 27, 28, gage height, 1.64 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	7.9	38	60	61	41	77	164	61	6.4	5.1	14
2	7.6	12	34	52	75	40	68	234	52	5.1	5.7	8.3
3	6.5	14	32	47	245	40	74	319	45	4.6	4.1	5.9
4	5.1	26	31	42	290	38	77	269	42	4.6	3.2	4.5
5	4.7	60	31	37	240	39	69	190	40	4.1	3.2	4.0
6	4.1	61	32	34	220	36	61	148	50	4.1	2.8	3.4
7	3.9	44	33	33	200	34	59	115	54	4.6	3.2	3.1
8	4.3	32	30	34	180	33	60	100	44	4.1	2.5	3.1
9	4.5	25	29	36	150	33	55	88	35	4.6	2.2	2.8
10	4.3	20	26	43	130	34	77	76	29	3.6	1.9	3.9
11	4.5	18	23	64	110	42	106	63	26	4.1	2.5	3.5
12	4.5	18	21	64	96	50	93	55	21	5.1	50	3.6
13	4.7	20	21	58	84	46	79	51	18	3.6	27	2.8
14	5.0	22	21	52	70	40	68	47	15	3.6	20	2.7
15	5.7	20	22	40	60	38	98	52	13	3.2	15	2.9
16	5.7	18	110	38	52	34	246	64	11	2.8	11	2.7
17	7.1	18	150	35	67	28	243	57	9.9	2.8	7.7	2.5
18	7.1	16	120	33	88	31	176	50	9.2	2.8	8.3	2.5
19	7.1	14	82	31	88	34	127	46	11	2.5	9.6	2.9
20	6.4	13	54	30	86	40	118	77	9.9	2.2	11	5.1
21	5.1	15	49	29	78	68	163	71	8.5	2.2	4.8	11
22	5.7	18	44	29	72	120	256	63	7.9	2.5	5.9	23
23	5.7	24	41	35	66	88	411	84	7.1	2.2	5.2	21
24	5.7	32	65	43	60	70	671	66	6.4	2.2	4.1	8.2
25	5.7	38	137	50	56	62	748	58	5.1	2.5	3.6	6.7
26	5.7	37	190	45	52	57	735	83	4.1	2.2	3.4	5.3
27	5.7	34	150	42	46	56	504	67	4.6	1.9	3.2	4.7
28	5.7	29	140	40	43	92	279	60	7.9	1.9	2.8	5.2
29	5.7	37	126	40	---	180	174	52	8.5	1.9	2.8	3.7
30	5.7	39	92	45	---	130	147	58	7.9	3.2	3.2	3.6
31	6.4	---	74	52	---	94	---	57	---	3.6	27	---
TOTAL	175.3	781.9	2048	1313	3065	1768	6119	2984	664.0	104.8	262.0	176.6
MEAN	5.65	26.1	66.1	42.4	109	57.0	204	96.3	22.1	3.38	8.45	5.89
MAX	9.7	61	190	64	290	180	748	319	61	6.4	50	23
MIN	3.9	7.9	21	29	43	28	55	46	4.1	1.9	1.9	2.5
CFSM	.13	.59	1.49	.96	2.46	1.28	4.60	2.17	.50	.08	.19	.13
IN.	.15	.66	1.72	1.10	2.57	1.48	5.13	2.50	.56	.09	.22	.15

CAL YR 1982 TOTAL 20398.1 MEAN 55.9 MAX 696 MIN 1.9 CFSM 1.26 IN 17.09
WTR YR 1983 TOTAL 19461.6 MEAN 53.3 MAX 748 MIN 1.9 CFSM 1.20 IN 16.31

04232400 SENECA LAKE AT WATKINS GLEN, NY

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, Hydrologic Unit 04140201, on east bank about 300 ft from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 mi².

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datm of 1929 (1.59 ft Barge Canal datum). Prior to Oct. 1, 1975, at datum 438.41 ft higher.

REMARKS.--Area of water surface, 67.6 mi². Diversion from Susquehanna River basin enters lake through Keuka Lake Outlet at Dresden. For table of diversion, see station 01528700. Lake regulated by taintor gates on Seneca River at lock 4, Waterloo, for operation of Erie (Barge) Canal and power generation by New York State Electric and Gas Corp.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 448.88 ft June 25, 1972; minimum, 442.64 ft Mar. 14, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 446.56 ft May 3; minimum, 443.85 ft Jan. 10.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444.40	444.24	444.35	444.06	444.15	444.35	444.76	446.28	445.02	444.99	444.88	444.72
2	444.48	444.25	444.38	444.08	444.05	444.55	444.77	446.31	444.97	445.04	444.96	444.65
3	444.36	444.28	444.35	444.08	444.15	444.15	444.81	446.40	444.91	445.05	444.92	444.67
4	444.41	444.40	444.39	444.02	444.25	444.45	444.85	446.43	444.94	445.00	444.90	444.60
5	444.39	444.45	444.38	443.96	444.30	444.45	444.88	446.43	444.95	445.03	444.95	444.60
6	444.34	444.42	444.42	443.97	444.35	444.45	444.90	446.40	445.00	445.10	444.93	444.58
7	444.36	444.40	444.40	443.95	444.45	444.45	444.90	446.32	445.00	445.05	444.95	444.62
8	444.33	444.43	444.37	443.98	444.32	444.25	444.96	446.33	444.99	445.00	444.89	444.61
9	444.40	444.42	444.37	443.95	444.33	444.25	444.99	446.34	444.96	445.07	444.98	444.54
10	444.35	444.39	444.25	443.93	444.33	444.25	445.05	446.30	444.94	445.09	444.94	444.54
11	444.25	444.32	444.27	443.97	444.34	444.45	445.14	446.24	444.95	445.02	444.90	444.54
12	444.27	444.32	444.26	443.99	444.45	444.45	445.15	446.18	444.96	444.99	445.00	444.55
13	444.33	444.40	444.22	443.97	444.45	444.40	445.12	446.11	444.97	445.07	444.92	444.54
14	444.28	444.39	444.16	443.95	444.45	444.35	445.04	446.04	444.95	445.04	444.88	444.50
15	444.28	444.37	444.14	444.00	444.45	444.35	445.15	445.98	444.94	444.99	444.84	444.44
16	444.32	444.30	444.16	444.03	444.45	444.25	445.39	445.95	444.95	445.07	444.81	444.37
17	444.31	444.28	444.17	443.99	444.45	444.25	445.46	445.86	445.00	445.04	444.77	444.32
18	444.23	444.26	444.10	444.05	444.45	444.45	445.48	445.79	445.05	444.98	444.81	444.38
19	444.17	444.26	444.08	444.05	444.45	444.45	445.51	445.70	445.07	445.03	444.83	444.30
20	444.18	444.24	444.10	444.05	444.45	444.40	445.50	445.67	445.08	444.97	444.80	444.37
21	444.22	444.25	444.09	444.05	444.45	444.35	445.52	445.62	445.07	444.97	444.84	444.35
22	444.28	444.31	444.05	444.05	444.45	444.35	445.58	445.55	445.03	445.05	444.72	444.47
23	444.24	444.35	444.01	444.05	444.55	444.25	445.66	445.50	444.97	444.92	444.82	444.38
24	444.22	444.39	444.00	444.05	444.55	444.64	445.77	445.46	444.99	444.92	444.73	444.39
25	444.24	444.35	444.02	444.05	444.55	444.61	445.98	445.38	445.02	445.00	444.73	444.33
26	444.24	444.35	444.12	444.05	444.55	444.59	446.11	445.35	444.92	444.91	444.68	444.30
27	444.23	444.37	444.09	444.05	444.60	444.59	446.15	445.28	444.90	444.90	444.71	444.35
28	444.21	444.31	444.08	444.05	444.65	444.65	446.17	445.20	445.10	444.86	444.72	444.33
29	444.19	444.34	444.11	444.05	---	444.73	446.18	445.13	445.12	444.86	444.72	444.32
30	444.22	444.36	444.09	444.05	---	444.74	446.22	445.11	445.04	444.89	444.68	444.32
31	444.22	---	444.07	444.05	---	444.75	---	445.05	---	444.89	444.72	---
MEAN	444.29	444.34	444.20	444.02	444.41	444.44	445.37	445.86	444.99	444.99	444.84	444.47
MAX	444.48	444.45	444.42	444.08	444.65	444.75	446.22	446.43	445.12	445.10	445.00	444.72
MIN	444.17	444.24	444.00	443.93	444.05	444.15	444.76	445.05	444.90	444.86	444.68	444.30

CAL YR 1982 MEAN 444.58 MAX 445.62 MIN 443.58
WTR YR 1983 MEAN 444.69 MAX 446.43 MIN 443.93

04232450 KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, NY
(Formerly published as Keuka Lake at Hammondsport)

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, Hydrologic Unit 04140201, on left bank of Keuka Inlet at end of Liberty Street extension at Hammondsport, and 300 ft upstream from mouth.

DRAINAGE AREA.--Keuka Inlet 25.0 mi^2; Keuka Lake at mouth 182 mi^2.

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1, 1975, at datum 710.00 ft higher.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 mi^2. During each year, a large part of flow from 45.5 mi^2 of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 719.35 ft June 24, 1972; minimum daily, 711.40 ft Feb. 2, 3, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 715.58 May 3; minimum, 712.80 ft Dec. 10, 14, 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	712.90	713.26	713.01	713.21	713.17	713.08	714.22	715.42	714.27	714.36	713.85	713.70
2	712.92	713.26	713.02	713.21	713.16	713.08	714.26	715.46	714.21	714.39	713.87	713.67
3	712.88	713.24	713.02	713.21	713.29	713.06	714.33	715.50	714.16	714.39	713.85	713.66
4	712.89	713.34	713.04	713.20	713.36	713.06	714.40	715.48	714.14	714.38	713.85	713.63
5	712.89	713.35	713.04	713.17	713.36	713.06	714.45	715.44	714.09	714.39	713.89	713.62
6	712.90	713.30	713.06	713.18	713.34	713.04	714.49	715.39	714.07	714.39	713.88	713.60
7	712.90	713.26	713.06	713.16	713.35	713.05	714.52	715.32	714.08	714.32	713.88	713.61
8	713.77	713.22	713.06	713.18	713.35	713.05	714.58	715.29	714.06	714.26	713.85	713.59
9	713.93	713.19	713.05	713.16	713.34	713.07	714.58	715.25	714.06	714.22	713.89	713.56
10	713.91	713.16	713.02	713.16	713.32	713.11	714.61	715.19	714.04	714.14	713.86	713.55
11	713.88	713.09	713.03	713.17	713.30	713.19	714.67	715.14	714.06	714.06	713.86	713.54
12	713.88	713.07	713.02	713.18	713.27	713.24	714.68	715.09	714.07	714.05	713.88	713.54
13	713.88	713.08	713.00	713.18	713.24	713.25	714.66	715.04	714.07	714.05	713.84	713.54
14	713.86	713.05	712.97	713.17	713.22	713.28	714.60	714.99	714.07	714.03	713.81	713.50
15	713.85	712.99	712.97	713.19	713.20	713.32	714.71	714.95	714.07	714.02	713.79	713.47
16	713.86	712.95	713.00	713.19	713.18	713.36	714.88	714.93	714.09	714.02	713.78	713.43
17	713.84	712.93	713.03	713.18	713.17	713.37	714.91	714.87	714.14	714.02	713.77	713.40
18	713.81	712.93	713.00	713.18	713.17	713.41	714.90	714.81	714.21	714.01	713.78	713.40
19	713.78	712.92	712.98	713.16	713.16	713.46	714.90	714.75	714.22	714.00	713.77	713.40
20	713.70	712.90	712.99	713.15	713.15	713.50	714.89	714.76	714.22	713.97	713.75	713.38
21	713.65	712.91	713.00	713.14	713.14	713.61	714.92	714.73	714.21	713.96	713.76	713.40
22	713.61	712.95	713.00	713.13	713.14	713.80	714.95	714.70	714.20	713.98	713.72	713.44
23	713.54	712.98	713.00	713.14	713.14	713.86	715.00	714.68	714.17	713.93	713.74	713.40
24	713.49	713.00	713.01	713.14	713.14	713.90	715.06	714.65	714.19	713.93	713.71	713.39
25	713.43	712.99	713.06	713.15	713.14	713.93	715.25	714.61	714.19	713.94	713.69	713.36
26	713.39	712.99	713.16	713.16	713.12	713.93	715.34	714.58	714.13	713.91	713.67	713.35
27	713.33	712.99	713.17	713.16	713.09	713.95	715.36	714.52	714.15	713.88	713.68	713.35
28	713.28	712.97	713.18	713.15	713.09	714.02	715.34	714.46	714.34	713.86	713.69	713.34
29	713.26	712.99	713.21	713.14	---	714.09	715.31	714.40	714.39	713.85	713.68	713.33
30	713.25	713.02	713.22	713.14	---	714.14	715.36	714.36	714.37	713.86	713.67	713.33
31	713.25	---	713.21	713.16	---	714.18	---	714.31	---	713.85	713.71	---
MEAN	713.47	713.08	713.05	713.17	713.22	713.47	714.80	714.94	714.16	714.08	713.79	713.48
MAX	713.93	713.35	713.22	713.21	713.36	714.18	715.36	715.50	714.39	714.39	713.89	713.70
MIN	712.88	712.90	712.97	713.13	713.09	713.04	714.22	714.31	714.04	713.85	713.67	713.33

CAL YR 1982 **MEAN** 713.58 **MAX** 714.97 **MIN** 712.38
WTR YR 1983 **MEAN** 713.73 **MAX** 715.50 **MIN** 712.88

04232482 KEUKA LAKE OUTLET AT DRESDEN, NY

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, Hydrologic Unit 04140201, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--207 mi².

PERIOD OF RECORD.--April 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 444.67 ft (revised) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, at datum 2.00 ft higher.

REMARKS.--Records fair. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 mi² of Mud Creek drainage area (Susquehanna River basin) is diverted into Keuka Lake (Oswego basin) for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--18 years, 203 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s June 22, 1972, gage height, 10.37 ft, present datum, from rating curve extended above 2,100 ft³/s on basis of contracted-opening measurement at Mays Mill, adjusted for intervening area; minimum, 3.2 ft³/s Sept. 6, 7, 8, 9, 10, 1982, gage height, 1.47 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 828 ft³/s May 11, gage height, 3.77 ft; maximum gage height, 4.04 ft Jan. 19 (ice jam); minimum discharge, 4.7 ft³/s Oct. 11; minimum gage height, 1.60 ft Aug. 7, 8, 9, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	43	51	48	42	143	26	483	438	20	16	17
2	6.2	117	49	47	47	140	24	580	424	20	16	17
3	5.7	224	49	47	99	140	35	609	364	19	15	16
4	5.9	253	49	49	120	140	29	594	322	19	15	16
5	6.2	259	49	52	160	137	25	580	322	41	7.9	17
6	6.4	248	51	44	147	134	40	574	163	144	6.2	16
7	7.0	234	48	44	147	134	141	567	56	352	6.2	30
8	7.3	224	48	44	147	62	192	553	51	346	6.2	19
9	6.7	215	48	44	147	20	257	553	35	334	6.4	19
10	5.9	211	51	43	140	21	242	540	20	316	5.9	19
11	6.2	215	48	45	128	40	247	532	20	104	6.7	19
12	40	215	48	44	120	39	316	523	18	20	12	18
13	42	211	53	49	114	29	364	515	16	19	12	19
14	42	207	53	44	107	27	352	507	16	18	13	18
15	43	202	47	43	131	26	507	499	17	18	14	19
16	42	202	52	43	140	24	602	507	22	18	14	19
17	42	182	49	48	143	23	507	499	24	18	15	19
18	42	164	53	290	140	23	468	483	25	18	16	19
19	134	147	47	500	140	32	417	491	26	18	20	19
20	259	131	48	460	140	37	460	499	24	18	19	19
21	269	117	47	420	147	78	574	491	22	18	18	23
22	259	104	47	400	147	87	560	483	22	18	18	20
23	253	93	47	340	147	46	491	491	21	17	16	19
24	248	82	52	280	143	35	540	483	20	17	14	19
25	243	72	62	210	143	28	700	483	20	18	16	19
26	239	64	58	280	140	26	587	475	20	17	16	19
27	234	56	53	190	140	27	540	468	20	17	16	19
28	182	53	55	60	143	39	523	453	33	18	16	19
29	44	55	52	40	---	46	460	453	25	18	16	19
30	43	52	49	42	---	33	499	453	22	17	18	19
31	43	---	48	43	---	28	---	438	---	16	17	---
TOTAL	2813.2	4652	1561	4333	3649	1844	10725	15859	2628	2071	423.5	569
MEAN	90.7	155	50.4	140	130	59.5	358	512	87.6	66.8	13.7	19.0
MAX	269	259	62	500	160	143	700	609	438	352	20	30
MIN	5.7	43	47	40	42	20	24	438	16	16	5.9	16

CAL YR 1982 TOTAL 69426.1 MEAN 190 MAX 617 MIN 3.2
WTR YR 1983 TOTAL 51127.7 MEAN 140 MAX 700 MIN 5.7

04233000 CAYUGA INLET NEAR ITHACA, NY

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, Hydrologic Unit 04140201, on left bank 0.8 mi upstream from Enfield (formerly Butternut) Creek, and 5 mi south of Ithaca.

DRAINAGE AREA.--35.2 mi^2.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--46 years (water years 1938-83), 38.5 ft^3/s, 14.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s June 23, 1972, gage height, 8.10 ft, from rating curve extended above 1,600 ft^3/s on basis of slope-area measurements at gage heights 5.5 ft and 7.58 ft; minimum discharge, 1.7 ft^3/s July 22, 1955; minimum gage height, 0.42 ft Aug. 30, 31, Sept. 1, 2, 1939, July 22, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 654 ft^3/s Apr. 15 at 2215 hours, gage height, 2.87 ft, no peak above base of 700 ft^3/s; minimum, 2.9 ft^3/s Sept. 19, gage height, 0.50 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	6.0	11	14	15	28	35	154	33	17	14	5.7
2	6.6	6.0	10	12	21	28	33	153	26	15	10	4.9
3	6.3	5.7	9.7	11	210	27	48	124	25	13	7.2	4.3
4	6.2	21	9.2	9.4	102	26	45	124	25	12	6.8	4.3
5	6.0	27	8.8	8.6	67	35	38	93	23	11	6.0	4.3
6	5.9	14	9.3	9.8	54	32	35	79	40	11	5.7	4.0
7	6.0	9.7	8.7	11	45	31	39	70	40	10	5.3	3.7
8	6.4	8.5	8.1	10	39	29	47	92	28	9.6	4.6	3.7
9	5.9	7.2	8.0	9.7	34	32	39	99	22	9.8	4.6	3.4
10	5.8	7.3	6.8	10	29	51	88	73	22	9.1	4.3	3.4
11	6.0	8.0	6.2	21	25	83	90	66	21	9.6	4.9	3.4
12	6.0	8.9	5.6	16	21	62	93	59	19	8.4	77	3.7
13	6.0	9.4	5.2	13	19	50	72	53	16	7.7	27	3.4
14	6.0	8.3	5.8	12	17	48	58	49	15	7.3	13	3.4
15	6.4	7.8	8.4	11	15	45	296	50	15	7.0	9.7	3.4
16	6.4	7.3	22	10	14	39	359	53	19	7.0	8.0	3.4
17	7.2	7.3	17	9.6	16	36	191	43	27	6.6	6.8	3.7
18	6.4	7.4	10	9.2	19	35	133	38	30	6.4	6.8	3.4
19	6.0	7.3	9.2	9.0	22	59	110	39	27	6.5	6.0	3.4
20	6.0	7.1	8.6	8.6	27	60	111	47	19	6.5	5.3	3.7
21	7.2	8.9	8.0	10	32	79	121	38	16	6.6	4.9	16
22	6.4	11	7.8	12	40	91	176	39	14	7.2	6.0	12
23	6.0	13	10	16	38	63	192	50	12	6.1	6.4	7.2
24	5.7	11	15	22	34	52	335	38	11	14	4.9	5.7
25	5.7	9.1	29	21	30	49	299	32	10	9.8	4.6	4.9
26	5.7	9.4	32	16	27	45	247	34	9.6	7.3	4.6	4.6
27	5.6	9.6	22	14	24	40	169	30	9.8	6.3	4.6	4.6
28	5.3	8.8	23	13	29	51	131	27	81	5.7	4.3	4.3
29	5.3	14	20	12	---	54	109	27	47	5.7	4.0	4.0
30	5.3	13	16	15	---	42	154	27	23	6.2	5.7	4.0
31	5.3	---	15	15	---	38	---	32	---	6.3	7.2	---
TOTAL	188.2	299.0	385.4	390.9	1065	1440	3893	1932	725.4	271.7	290.2	143.9
MEAN	6.07	9.97	12.4	12.6	38.0	46.5	130	62.3	24.2	8.76	9.36	4.80
MAX	7.2	27	32	22	210	91	359	154	81	17	77	16
MIN	5.3	5.7	5.2	8.6	14	26	33	27	9.6	5.7	4.0	3.4
CFSM	.17	.28	.35	.36	1.08	1.32	3.69	1.77	.69	.25	.27	.14
IN.	.20	.32	.41	.41	1.13	1.52	4.11	2.04	.77	.29	.31	.15

CAL YR 1982 TOTAL 12626.7 MEAN 34.6 MAX 292 MIN 4.4 CFSM .98 IN 13.34
WTR YR 1983 TOTAL 11024.7 MEAN 30.2 MAX 359 MIN 3.4 CFSM .86 IN 11.65

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY
(Formerly published as Cayuga Lake at Ithaca)

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, Hydrologic Unit 04140201, on left bank of natural channel 40 ft upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1 mi upstream from mouth of Inlet, at Ithaca.

DRAINAGE AREA.--Cayuga Inlet 143 mi^2; Cayuga Lake at mouth 1,564 mi^2; Cayuga Lake portion 785 mi^2.

PERIOD OF RECORD.--August 1905 to December 1909, August 1956 to current year in reports of Geological Survey. January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (1.43 ft Barge Canal datum). Prior to September 1925, nonrecording gage at several sites within 1 mi of present site. Prior to October 1968, at datum 378.57 ft higher. October 1968 to September 1975, at datum 376.57 ft higher.

REMARKS.--Lake regulated at Mud Lock by New York State Department of Transportation. Area of water surface, 66.9 mi^2. Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mi upstream from Mud Lock and is included in first drainage area given above.

EXTREMES FOR PERIOD OF RECORD.--(1905-25 and since 1956): Maximum elevation, 386.33 ft June 26, 1972; minimum daily, 377.64 ft present datum, Mar. 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 384.85 ft May 3; minimum, 378.88 ft Feb. 2.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381.78	381.33	381.18	380.29	378.99	379.97	381.67	384.71	382.54	382.40	382.07	381.81
2	381.84	381.35	381.14	380.27	378.92	380.06	381.65	384.69	382.52	382.49	382.13	381.74
3	381.73	381.34	381.04	380.24	379.26	380.08	381.66	384.74	382.48	382.48	382.06	381.73
4	381.76	381.45	381.05	380.15	379.53	380.09	381.74	384.72	382.46	382.41	382.05	381.68
5	381.74	381.56	380.97	380.08	379.59	380.09	381.77	384.66	382.40	382.47	382.05	381.67
6	381.68	381.53	380.95	380.07	379.56	380.06	381.78	384.55	382.41	382.54	382.04	381.66
7	381.68	381.52	380.91	379.99	379.65	380.09	381.79	384.36	382.41	382.45	382.04	381.72
8	381.65	381.53	380.89	379.98	379.71	380.13	381.93	384.34	382.45	382.38	381.98	381.68
9	381.71	381.57	380.93	379.85	379.70	380.21	381.94	384.33	382.37	382.45	382.05	381.61
10	381.68	381.54	380.73	379.70	379.69	380.31	382.00	384.18	382.34	382.43	382.00	381.61
11	381.56	381.43	380.76	379.73	379.69	380.48	382.15	384.03	382.35	382.33	381.96	381.62
12	381.57	381.42	380.68	379.72	379.69	380.61	382.31	383.88	382.36	382.33	382.06	381.61
13	381.62	381.55	380.59	379.61	379.66	380.53	382.41	383.72	382.36	382.39	381.97	381.60
14	381.57	381.47	380.51	379.48	379.66	380.50	382.35	383.54	382.35	382.33	381.94	381.56
15	381.58	381.49	380.49	379.48	379.68	380.58	382.69	383.41	382.34	382.28	381.92	381.50
16	381.61	381.39	380.54	379.48	379.66	380.63	383.21	383.30	382.33	382.36	381.91	381.38
17	381.62	381.40	380.61	379.33	379.68	380.63	383.43	383.12	382.35	382.29	381.89	381.38
18	381.52	381.37	380.44	379.29	379.74	380.72	383.48	382.96	382.39	382.26	381.95	381.41
19	381.46	381.31	380.32	379.23	379.76	380.76	383.56	382.79	382.41	382.29	381.97	381.37
20	381.42	381.23	380.35	379.11	379.77	380.83	383.47	382.75	382.41	382.21	381.97	381.39
21	381.49	381.26	380.35	379.01	379.81	380.91	383.43	382.72	382.37	382.26	381.97	381.38
22	381.52	381.35	380.29	378.95	379.84	381.12	383.47	382.62	382.34	382.34	381.85	381.52
23	381.47	381.34	380.22	378.93	379.89	381.28	383.62	382.59	382.34	382.17	381.93	381.44
24	381.41	381.40	380.18	378.94	379.93	381.40	383.97	382.64	382.41	382.18	381.83	381.45
25	381.42	381.31	380.17	378.95	379.99	381.47	384.41	382.60	382.48	382.23	381.83	381.37
26	381.41	381.28	380.31	378.97	380.01	381.44	384.57	382.67	382.35	382.14	381.78	381.36
27	381.37	381.29	380.24	378.96	379.94	381.37	384.63	382.66	382.34	382.12	381.82	381.39
28	381.34	381.14	380.27	378.96	379.94	381.50	384.65	382.60	382.52	382.06	381.82	381.38
29	381.31	381.19	380.42	378.93	---	381.66	384.63	382.54	382.51	382.07	381.83	381.36
30	381.33	381.22	380.42	378.93	---	381.64	384.65	382.56	382.41	382.07	381.77	381.35
31	381.31	---	380.35	378.98	---	381.64	---	382.53	---	382.08	381.82	---
MEAN	381.55	381.39	380.59	379.47	379.68	380.74	382.97	383.47	382.40	382.30	381.94	381.52
MAX	381.84	381.57	381.18	380.29	380.01	381.66	384.65	384.74	382.54	382.54	382.13	381.81
MIN	381.31	381.14	380.17	378.93	378.92	379.97	381.65	382.53	382.33	382.06	381.77	381.35

CAL YR 1982 MEAN 381.28 MAX 383.28 MIN 378.69
WTR YR 1983 MEAN 381.51 MAX 384.74 MIN 378.92

04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi east of Ithaca, 0.5 mi upstream from Cornell University dam, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft National Geodetic Vertical Datum of 1929. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Diversion from point about 1 mi upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University.

AVERAGE DISCHARGE.--58 years (water years 1926-83), 186 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft^3/s July 8, 1935, gage height, 9.52 ft, from average of computed flow over each of four dams; maximum gage height, 11.16 ft Feb. 21, 1971 (ice jam); minimum discharge, about 3 ft^3/s Aug. 25, 1927, result of regulation; minimum daily, 3.6 ft^3/s Aug. 17, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	0530	*2,500	*4.12	Apr. 25	0130	2,240	3.93

Minimum discharge, 8.3 ft^3/s Sept. 17, gage height, 0.27 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	31	199	170	120	170	176	768	193	49	42	19
2	30	55	161	140	130	174	164	809	141	44	62	16
3	27	44	143	120	1200	183	208	648	111	40	37	15
4	25	60	134	100	899	172	200	626	101	35	26	13
5	24	295	133	96	379	187	171	459	108	33	26	13
6	25	163	130	110	301	205	156	370	102	31	32	13
7	21	98	131	120	260	197	166	309	170	29	25	14
8	22	77	107	120	220	190	276	326	128	28	21	13
9	24	63	101	88	180	189	210	636	100	30	19	12
10	23	54	56	100	160	200	369	373	88	30	18	12
11	22	52	100	186	150	300	476	294	90	25	18	12
12	21	79	81	209	140	272	349	259	81	25	56	11
13	24	92	70	116	130	199	270	231	70	24	57	10
14	24	75	82	110	120	187	221	208	62	21	30	10
15	25	62	97	98	110	176	746	197	57	21	24	10
16	33	52	227	92	100	164	1980	227	52	26	21	9.4
17	58	48	236	86	120	150	969	199	72	23	18	10
18	65	47	95	80	130	142	678	171	85	21	31	10
19	45	44	84	76	150	166	500	157	85	19	39	10
20	34	43	74	72	180	231	458	179	63	19	24	10
21	36	62	68	80	210	259	460	165	54	20	19	18
22	37	227	64	96	240	430	580	147	48	45	17	61
23	31	258	90	133	282	240	1050	193	41	32	19	31
24	29	198	130	263	249	204	1500	224	38	59	18	21
25	27	172	330	261	210	178	1680	163	36	69	15	18
26	27	137	536	188	174	159	1230	159	34	34	15	15
27	26	130	311	158	139	174	936	158	34	27	25	15
28	26	108	481	140	166	218	659	135	128	23	23	14
29	25	208	375	120	---	341	522	130	154	22	17	13
30	24	286	262	130	---	223	737	128	72	24	16	13
31	24	---	196	120	---	190	---	132	---	28	19	---
TOTAL	918	3320	5284	3978	6849	6470	18097	9180	2598	956	829	461.4
MEAN	29.6	111	170	128	245	209	603	296	86.6	30.8	26.7	15.4
MAX	65	295	536	263	1200	430	1980	809	193	69	62	61
MIN	21	31	56	72	100	142	156	128	34	19	15	9.4
CFSM	.24	.88	1.35	1.02	1.94	1.66	4.79	2.35	.69	.24	.21	.12
IN.	.27	.98	1.56	1.17	2.02	1.91	5.34	2.71	.77	.28	.24	.14

CAL YR 1982 TOTAL 63438.0 MEAN 174 MAX 1300 MIN 13 CFSM 1.38 IN 18.73
WTR YR 1983 TOTAL 58940.4 MEAN 161 MAX 1980 MIN 9.4 CFSM 1.28 IN 17.40

04234500 CANANDIAGUA LAKE AT CANANDAIGUA, NY

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, Hydrologic Unit 04140201, at south end of city pier at northern end of Canandaigua Lake, 1 mi southeast of Canandaigua.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. June 26, 1946 to Sept. 30, 1975, at datum 681.17 ft higher, and prior to June 26, 1946, nonrecording gage at E. T. Waldorf's boathouse at same datum.

REMARKS.--Lake elevation regulated by one gate on West outlet, which is a 1.5 mi long canal, and by two gates on East outlet, which is the natural outlet. Sill elevations of West and East outflow structures are 684.37 ft and 684.94 ft, respectively. Water diverted for municipal supply for villages of Newark, Palmyra, and Gorham. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 692.11 ft June 24, 1972; minimum daily, 685.62 ft Jan. 30, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 689.51 ft May 2, 4; minimum, 686.80 ft Dec. 14, 15, 16, 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687.32	686.93	687.04	687.05	687.00	687.28	688.33	689.35	688.60	688.53	687.87	687.46
2	687.28	686.95	687.01	687.02	687.05	687.28	688.37	689.45	688.59	688.49	687.84	687.44
3	687.29	686.95	687.04	687.00	687.07	687.29	688.44	689.48	688.59	688.47	687.82	687.42
4	687.26	687.12	687.00	687.00	687.11	687.30	688.48	689.50	688.59	688.49	687.81	687.40
5	687.24	687.25	687.00	686.99	687.13	687.31	688.51	689.47	688.59	688.44	687.82	687.38
6	687.23	687.26	686.99	686.95	687.15	687.34	688.52	689.41	688.58	688.39	687.80	687.38
7	687.24	687.23	686.97	686.98	687.16	687.35	688.57	689.39	688.61	688.37	687.79	687.34
8	687.21	687.22	686.94	686.95	687.17	687.38	688.57	689.28	688.57	688.35	687.79	687.30
9	687.19	687.16	686.91	686.96	687.18	687.36	688.54	689.22	688.56	688.31	687.74	687.29
10	687.19	687.14	686.93	687.01	687.18	687.36	688.58	689.14	688.56	688.27	687.71	687.26
11	687.20	687.19	686.87	686.97	687.17	687.42	688.55	689.07	688.53	688.28	687.71	687.24
12	687.15	687.13	686.84	686.96	687.17	687.45	688.56	689.00	688.53	688.26	687.73	687.20
13	687.13	687.09	686.82	686.96	687.17	687.48	688.56	688.93	688.53	688.22	687.74	687.16
14	687.13	687.08	686.82	686.97	687.17	687.51	688.63	688.87	688.53	688.20	687.73	687.14
15	687.16	687.03	686.81	686.97	687.17	687.52	688.56	688.80	688.52	688.19	687.70	687.12
16	687.13	687.03	686.83	686.97	687.17	687.54	688.64	688.75	688.52	688.15	687.68	687.14
17	687.12	686.99	686.81	686.98	687.19	687.58	688.66	688.68	688.55	688.13	687.67	687.09
18	687.12	686.96	686.85	686.96	687.18	687.59	688.65	688.64	688.58	688.12	687.68	687.04
19	687.11	686.96	686.89	686.95	687.19	687.63	688.63	688.63	688.57	688.10	687.67	687.03
20	687.10	686.99	686.82	686.94	687.21	687.68	688.65	688.60	688.55	688.08	687.65	687.06
21	687.05	686.97	686.83	686.94	687.23	687.74	688.69	688.53	688.55	688.06	687.60	687.08
22	687.01	686.94	686.84	686.93	687.23	687.91	688.71	688.50	688.54	688.02	687.60	687.10
23	686.99	686.96	686.85	686.94	687.25	687.99	688.79	688.49	688.54	688.01	687.56	687.05
24	686.97	686.97	686.87	686.96	687.25	688.01	688.84	688.48	688.49	687.97	687.54	687.01
25	686.96	686.99	686.94	686.97	687.26	688.02	689.03	688.50	688.45	687.94	687.52	686.99
26	686.94	686.99	686.98	686.97	687.26	688.05	689.17	688.50	688.47	687.92	687.51	686.97
27	686.93	686.98	687.05	686.98	687.28	688.13	689.24	688.51	688.44	687.91	687.49	686.94
28	686.92	687.03	687.11	686.98	687.28	688.15	689.23	688.51	688.46	687.89	687.48	686.92
29	686.91	687.05	687.07	686.98	---	688.21	689.20	688.53	688.51	687.87	687.46	686.90
30	686.90	687.03	687.07	686.99	---	688.27	689.28	688.55	688.53	687.84	687.47	686.88
31	686.89	---	687.06	687.01	---	688.31	---	688.57	---	687.84	687.48	---
MEAN	687.11	687.05	686.93	686.97	687.18	687.66	688.71	688.88	688.54	688.16	687.67	687.16
MAX	687.32	687.26	687.11	687.05	687.28	688.31	689.28	689.50	688.61	688.53	687.87	687.46
MIN	686.89	686.93	686.81	686.93	687.00	687.28	688.33	688.48	688.44	687.84	687.46	686.88

CAL YR 1982 MEAN 687.54 MAX 688.81 MIN 686.63
WTR YR 1983 MEAN 687.67 MAX 689.50 MIN 686.81

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

LOCATION.--Lat 42°55'05", long 77°13'59", Ontario County, Hydrologic Unit 04140201, on right bank at Chapin, 25 ft upstream from bridge on State Highway 488, and 4.1 mi downstream from Canandaigua Lake.

DRAINAGE AREA.--195 mi².

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as "Canandaigua Lake Outlet."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 671.44 ft National Geodetic Vertical Datum of 1929. Prior to June 25, 1974, at site 0.1 mi upstream at datum 676.90 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Canandaigua Lake (see station 04234500), from which water is diverted for municipal supply by villages of Newark, Palmyra, and Gorham. Monthly runoff adjusted for change in contents in Canandaigua Lake from October 1945 to September 1966.

AVERAGE DISCHARGE.--43 years (water years 1941-83), 154 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft³/s June 24, 1972, gage height, 11.08 ft present datum, at site then in use; minimum, 4.6 ft³/s Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft³/s Apr. 30, gage height, 6.22 ft; minimum daily, 32 ft³/s Oct. 4; minimum gage height, 3.18 ft Dec. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	44	168	162	61	62	53	875	76	69	92	48
2	36	43	162	160	71	60	51	874	72	69	86	48
3	34	42	165	156	97	59	67	880	99	71	83	47
4	32	108	163	153	72	56	60	855	166	74	77	47
5	33	174	158	144	66	55	70	841	158	76	76	50
6	34	182	164	59	79	53	109	819	152	76	69	47
7	36	176	158	55	66	55	116	805	146	76	66	43
8	36	176	152	53	65	54	183	778	136	90	63	40
9	34	168	148	53	67	55	379	757	118	97	57	42
10	34	162	148	56	79	56	428	731	45	99	57	40
11	37	152	143	55	93	77	438	701	43	101	61	42
12	37	152	138	53	79	77	440	676	42	101	69	43
13	37	152	120	53	73	67	415	654	40	99	55	44
14	37	148	44	54	63	64	416	634	44	94	54	44
15	39	148	42	55	62	59	462	616	60	114	52	44
16	37	144	49	56	66	55	480	578	60	114	51	44
17	37	143	47	57	72	54	447	490	63	118	51	43
18	37	140	46	82	73	51	438	468	63	118	51	43
19	38	132	47	106	70	56	429	466	63	120	50	42
20	37	53	45	104	69	60	465	474	63	120	48	44
21	36	47	44	142	71	108	579	452	64	120	45	51
22	36	46	45	146	67	114	679	449	64	120	45	47
23	36	48	47	63	63	71	629	321	66	118	45	44
24	47	51	62	63	65	65	611	88	64	116	47	42
25	45	49	69	69	65	84	745	69	61	114	50	42
26	39	49	68	60	66	68	758	57	61	110	50	42
27	39	48	74	52	65	80	756	57	61	108	50	42
28	40	49	173	50	62	105	758	60	74	102	50	47
29	40	103	171	51	---	100	757	63	68	101	51	45
30	40	168	166	57	---	60	992	69	68	97	58	45
31	39	---	163	64	---	55	---	71	---	94	51	---
TOTAL	1171	3297	3389	2543	1967	2095	13210	15728	2360	3096	1810	1332
MEAN	37.8	110	109	82.0	70.3	67.6	440	507	78.7	99.9	58.4	44.4
MAX	52	182	173	162	97	114	992	880	166	120	92	51
MIN	32	42	42	50	61	51	51	57	40	69	45	40

CAL YR 1982 TOTAL 50734 MEAN 139 MAX 567 MIN 16
WTR YR 1983 TOTAL 51998 MEAN 142 MAX 992 MIN 32

04235250 FLINT CREEK AT PHELPS, NY

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, Hydrologic Unit 04140201, on right bank 25 ft downstream from bridge on Eagle Street at Phelps, and 1.1 mi upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Small diversion (during periods of low ground-water level) by Phelps Cement Products, Inc., located about 0.2 mile upstream. Since 1967, flow from Canandaigua Lake diverted into Flint Creek for municipal supply of village of Gorham; presently not exceeding 0.3 ft^3/s.

AVERAGE DISCHARGE.--24 years, 89.7 ft^3/s, 11.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft^3/s Mar. 30, 1960, gage height, 5.83 ft; maximum gage height, 6.20 ft Mar. 17, 1963 (ice jam); no flow for many days 1962-65, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 913 ft^3/s Apr. 26 at 0100 hours, gage height, 4.24 ft, no other peak above base of 800 ft^3/s; minimum, 0.03 ft^3/s Sept. 16, 17, gage height, 0.48 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	75	75	60	67	149	397	65	20	1.0	1.3
2	15	22	60	69	73	69	129	409	55	15	.87	1.2
3	11	15	51	61	232	64	188	422	46	12	.41	1.7
4	7.9	71	47	47	245	61	226	351	46	10	.87	1.8
5	9.2	157	45	37	137	64	183	275	46	9.6	2.3	1.4
6	7.9	209	50	58	107	65	147	206	43	8.9	2.2	1.7
7	5.8	143	45	48	92	63	141	166	42	7.9	1.9	.94
8	6.7	73	38	44	76	61	166	143	38	7.4	2.3	.67
9	5.8	47	35	37	64	58	153	139	31	7.2	1.6	.56
10	6.2	34	26	42	56	59	178	123	28	6.5	1.7	.46
11	7.7	29	23	42	54	102	251	105	26	5.8	2.0	.30
12	7.9	28	21	47	52	131	275	93	24	5.5	10	.27
13	7.4	30	19	31	50	116	188	83	21	4.9	4.7	.16
14	7.7	34	29	31	48	116	147	75	19	4.0	5.3	.12
15	8.2	29	31	29	46	114	265	73	17	3.3	5.1	.10
16	8.2	25	57	27	46	112	469	77	17	2.8	4.1	.05
17	10	22	63	25	54	100	355	75	98	2.0	2.7	.04
18	11	21	39	24	64	90	241	65	58	1.5	2.3	.06
19	9.9	19	34	24	74	114	190	63	40	.94	3.0	.04
20	8.9	18	33	23	82	175	180	87	30	.61	2.3	.12
21	8.2	19	32	23	93	251	217	93	25	.46	1.4	.73
22	8.2	21	31	23	97	434	413	77	21	1.0	1.2	3.6
23	7.7	31	34	27	95	344	569	84	19	1.3	1.4	5.3
24	7.9	45	57	49	89	229	469	84	17	.67	1.0	4.5
25	7.7	42	141	64	81	160	787	74	14	.24	.80	4.0
26	7.7	37	193	64	65	129	761	69	12	1.2	.56	2.4
27	7.4	34	198	54	57	125	478	65	11	.94	.46	1.6
28	7.2	31	190	40	66	183	389	56	20	.73	.56	1.6
29	6.7	49	149	38	---	288	285	52	35	.73	.56	1.7
30	15	75	116	42	---	226	413	65	31	.56	.80	4.3
31	7.4	---	89	58	---	175	---	73	---	.61	2.7	---
TOTAL	268.5	1421	2051	1303	2355	4345	9002	4219	995	144.29	68.09	42.72
MEAN	8.66	47.4	66.2	42.0	84.1	140	300	136	33.2	4.65	2.20	1.42
MAX	15	209	198	75	245	434	787	422	98	20	10	5.3
MIN	5.8	11	19	23	46	58	129	52	11	.24	.41	.04
CFSM	.09	.47	.65	.41	.83	1.37	2.94	1.33	.33	.05	.02	.01
IN.	.10	.52	.75	.48	.86	1.58	3.28	1.54	.36	.05	.02	.02

CAL YR 1982 TOTAL 25316.20 MEAN 69.4 MAX 720 MIN 1.7 CFSM .68 IN 9.23
WTR YR 1983 TOTAL 26214.60 MEAN 71.8 MAX 787 MIN .04 CFSM .70 IN 9.56

04235396 OWASCO LAKE NEAR AUBURN, NY

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, Hydrologic Unit 04140201, on east side of breakwater at city of Auburn water intake and pumping station, 1 mi south of city limits of Auburn, and 1.8 mi upstream from State dam.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1967 to current year. Records since 1912 collected by, and in files of, city of Auburn.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 1, 1982, nonrecording gage read once daily by employees of city of Auburn Water Division at same site and datum. Reference mark at elevation 718.59 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 mi^2.

COOPERATION.--Records furnished by city of Auburn until April 30, 1982.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 716.88 ft June 25, 1972; minimum observed, 708.58 ft Feb. 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed elevation since 1912, 716.91 ft Mar. 23, 1936, Apr. 9, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 713.80 ft Apr. 18; minimum, 709.74 ft Feb. 2.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	711.85	711.41	711.47	711.39	710.03	710.81	712.09	713.24	712.71	712.65	711.95	711.49
2	711.79	711.42	711.54	711.29	709.87	710.78	712.17	713.17	712.71	712.62	711.93	711.48
3	711.85	711.39	711.34	711.22	710.34	710.75	712.23	713.31	712.65	712.66	711.93	711.47
4	711.76	711.32	711.44	711.13	710.77	710.72	712.27	713.16	712.65	712.62	711.90	711.39
5	711.77	711.47	711.40	711.09	710.91	710.71	712.32	712.94	712.66	712.55	711.88	711.38
6	711.76	711.52	711.43	711.11	711.04	710.73	712.37	712.75	712.70	712.56	711.91	711.46
7	711.82	711.47	711.38	711.06	711.03	710.79	712.48	712.64	712.73	712.50	711.89	711.43
8	711.79	711.49	711.33	710.98	711.05	710.81	712.51	712.61	712.78	712.50	711.90	711.42
9	711.74	711.34	711.30	710.98	711.05	710.88	712.50	712.80	712.78	712.48	711.83	711.13
10	711.74	711.29	711.08	710.72	711.04	710.87	712.56	712.90	712.77	712.44	711.82	711.13
11	711.75	711.01	711.19	711.00	711.01	710.97	712.62	712.94	712.83	712.42	711.77	711.13
12	711.76	711.12	711.15	710.94	710.99	711.06	712.66	712.96	712.87	712.40	711.78	711.12
13	711.75	711.31	711.01	710.89	710.96	711.14	712.68	712.97	712.88	712.35	711.78	711.11
14	711.75	711.28	710.99	710.92	710.93	711.24	712.32	712.97	712.91	712.33	711.77	711.08
15	711.76	711.35	710.99	710.86	710.90	711.28	712.74	712.96	712.90	712.30	711.74	711.06
16	711.68	711.30	710.93	710.75	710.87	711.33	713.39	713.00	712.89	712.26	711.72	710.91
17	711.70	711.36	710.94	710.69	710.85	711.47	713.72	712.99	712.90	712.25	711.70	710.98
18	711.81	711.38	710.99	710.63	710.87	711.53	713.78	712.96	712.90	712.21	711.69	710.97
19	711.80	711.32	710.80	710.56	710.88	711.59	713.57	712.91	712.87	712.18	711.66	711.01
20	711.64	711.15	710.86	710.50	710.88	711.56	713.40	712.89	712.86	712.16	711.64	711.03
21	711.74	711.18	710.79	710.45	710.88	711.66	713.20	712.87	712.84	712.15	711.60	711.02
22	711.64	711.45	710.79	710.38	710.89	711.73	713.01	712.88	712.81	712.10	711.61	711.20
23	711.59	711.50	710.74	710.35	710.94	711.74	712.84	712.90	712.79	712.10	711.56	711.18
24	711.62	711.52	710.66	710.33	710.95	711.73	712.60	712.90	712.76	712.08	711.52	711.17
25	711.60	711.52	710.76	710.32	710.94	711.70	713.13	712.87	712.70	712.04	711.49	711.11
26	711.54	711.50	710.93	710.30	710.91	711.70	713.50	712.93	712.68	712.01	711.48	711.12
27	711.60	711.46	710.97	710.29	710.88	711.73	713.58	712.91	712.69	711.99	711.47	711.12
28	711.54	711.21	710.99	710.22	710.85	711.76	713.50	712.85	712.65	711.97	711.60	711.12
29	711.54	711.36	711.27	710.22	---	711.86	713.30	712.77	712.65	711.95	711.61	711.10
30	711.46	711.50	711.30	710.12	---	711.95	713.29	712.71	712.60	711.95	711.56	711.09
31	711.41	---	711.41	710.07	---	712.03	---	712.71	---	711.92	711.52	---
MEAN	711.70	711.36	711.10	710.70	710.84	711.31	712.88	712.92	712.77	712.28	711.72	711.18
MAX	711.85	711.52	711.54	711.39	711.05	712.03	713.78	713.31	712.91	712.66	711.95	711.49
MIN	711.41	711.01	710.66	710.07	709.87	710.71	712.09	712.61	712.60	711.92	711.47	710.91

CAL YR 1982 MEAN 711.59 MAX 712.99 MIN 709.00
WTR YR 1983 MEAN 711.73 MAX 713.78 MIN 709.87

04235500 OWASCO OUTLET NEAR AUBURN, NY

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, Hydrologic Unit 04140201, on left bank 2.5 mi downstream from center of Auburn, and 4 mi downstream from State dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 mi².

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet."

REVISED RECORDS.--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WSP 2112: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diurnal fluctuation caused by mills in Auburn; regulation at State dam at outlet of lake.

AVERAGE DISCHARGE.--70 years (water years 1914-83), 289 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s June 23, 1972, gage height, 6.28 ft; minimum, about 2 ft³/s Dec. 5, 1936; minimum gage height, 1.03 ft Oct. 13, 14, 21, 1982; minimum daily discharge, 5 ft³/s Nov. 11, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,870 ft³/s Apr. 30, gage height, 4.20 ft; minimum, 8.5 ft³/s Oct. 13, 14, 21, gage height, 1.03 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	170	366	360	330	330	56	1710	300	80	63	20
2	27	204	360	349	338	330	56	1680	285	79	64	20
3	26	126	343	349	360	329	58	1640	149	78	63	21
4	27	338	349	349	337	329	56	1580	39	78	63	24
5	27	321	371	338	336	328	55	1510	32	78	80	29
6	70	295	377	347	338	328	55	1160	37	76	63	26
7	33	216	343	347	338	295	59	707	30	73	61	25
8	29	155	204	344	338	39	207	405	49	72	64	23
9	42	316	229	331	336	37	326	326	50	72	62	24
10	24	327	338	315	336	38	356	376	74	70	62	26
11	25	300	343	259	332	39	339	381	72	72	72	23
12	12	266	343	163	333	32	343	382	70	72	70	24
13	11	177	338	336	332	33	349	365	71	74	61	24
14	17	53	338	341	333	34	354	333	70	79	61	23
15	21	50	343	340	331	34	390	366	70	84	61	23
16	23	21	354	337	332	34	609	373	61	83	61	24
17	21	32	349	336	334	34	682	375	98	82	61	24
18	19	52	343	335	334	35	1130	354	85	84	63	26
19	87	34	343	333	332	35	1610	343	84	84	61	29
20	24	33	343	332	331	34	1600	341	84	83	61	25
21	11	200	343	328	332	147	1590	334	83	88	61	50
22	123	321	338	330	332	321	1530	332	82	83	63	25
23	145	327	343	334	332	318	1520	331	82	82	61	24
24	46	321	349	348	333	316	1590	327	82	81	61	24
25	32	316	354	341	332	317	1720	327	80	82	63	23
26	29	316	354	339	332	314	1780	321	80	81	55	42
27	173	316	354	336	330	313	1810	319	80	78	29	46
28	136	316	366	334	330	175	1780	313	104	116	48	26
29	145	327	360	332	---	65	1620	308	88	25	38	34
30	261	349	354	333	---	50	1750	311	80	18	19	32
31	129	---	349	332	---	57	---	305	---	49	19	---
TOTAL	1824	6595	10581	10228	9364	5120	25380	18235	2651	2336	1794	809
MEAN	58.8	220	341	330	334	165	846	588	88.4	75.4	57.9	27.0
MAX	261	349	377	360	360	330	1810	1710	300	116	80	50
MIN	11	21	204	163	330	32	55	305	30	18	19	20

CAL YR 1982 TOTAL 83145 MEAN 228 MAX 1080 MIN 11
WTR YR 1983 TOTAL 94917 MEAN 260 MAX 1810 MIN 11

04236000 SKANEATELES LAKE AT SKANEATELES, NY

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, Hydrologic Unit 04140201, on east side of breakwater, enclosed in city of Syracuse boathouse, at Skaneateles.

DRAINAGE AREA.--72.7 mi².

PERIOD OF RECORD.--October 1967 to current year. Records since September 1890 collected by, and in files of, city of Syracuse.

GAGE.--Nonrecording gages read once daily by employees of Syracuse Water Division. Datum of gage is National Geodetic Vertical Datum of 1929. October 1967 to September 1975, at same site at datum 801.75 ft higher.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 mi².

COOPERATION.--Records furnished by city of Syracuse.

EXTREMES FOR PERIOD OF RECORD.--(since 1890): Maximum observed elevation, 866.95 ft June 25, 26, 1972; minimum observed, 858.90 ft Nov. 15, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 864.74 ft May 9; minimum observed, 861.82 ft Nov. 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	862.72	861.99	861.89	862.07	861.87	862.12	862.21	864.50	864.57	864.28	863.55	862.81
2	862.70	862.01	861.89	862.05	861.86	862.10	862.22	864.45	864.59	864.27	863.53	862.79
3	862.68	861.99	861.87	862.03	862.07	862.08	862.25	864.60	864.59	864.25	863.52	862.75
4	862.63	861.97	861.86	862.02	862.09	862.09	862.24	864.67	864.55	864.24	863.50	862.70
5	862.61	862.01	861.95	862.02	862.09	862.09	862.24	864.70	864.56	864.23	863.49	862.67
6	862.58	862.01	862.00	862.01	862.12	862.11	862.24	864.69	864.54	864.18	863.48	862.66
7	862.56	862.03	862.00	862.01	862.13	862.10	862.22	864.69	864.54	864.16	863.45	862.65
8	862.50	862.03	861.98	862.02	862.14	862.09	862.23	864.67	864.53	864.15	863.41	862.64
9	862.50	862.01	861.97	862.01	862.16	862.09	862.24	864.74	864.52	864.12	863.40	862.63
10	862.49	861.99	861.96	861.99	862.16	862.08	862.24	864.72	864.52	864.07	863.38	862.62
11	862.46	861.97	861.95	862.00	862.15	862.09	862.31	864.72	864.52	864.05	863.37	862.61
12	862.47	861.96	861.89	862.00	862.15	862.13	862.32	864.70	864.48	864.03	863.33	862.58
13	862.45	861.94	861.90	862.00	862.13	862.15	862.43	864.69	864.46	863.99	863.29	862.57
14	862.41	861.98	861.90	862.01	862.15	862.16	862.43	864.65	864.46	863.97	863.26	862.54
15	862.37	861.93	861.88	862.02	862.17	862.16	862.45	864.60	864.45	863.94	863.23	862.50
16	862.33	861.91	861.89	861.97	862.17	862.17	862.69	864.62	864.44	863.90	863.21	862.47
17	862.32	861.89	861.90	861.95	862.19	862.16	862.80	864.62	864.44	863.85	863.19	862.43
18	862.29	861.86	861.89	861.95	862.19	862.16	862.85	864.61	864.50	863.81	863.17	862.40
19	862.30	861.85	861.87	861.94	862.18	862.15	862.87	864.61	864.45	863.78	863.14	862.39
20	862.28	861.82	861.87	861.94	862.15	862.14	863.00	864.60	864.45	863.76	863.12	862.34
21	862.25	861.87	861.87	861.93	862.17	862.15	863.13	864.58	864.44	863.75	863.09	862.31
22	862.23	861.87	861.88	861.93	862.17	862.16	863.15	864.54	864.44	863.74	863.05	862.32
23	862.21	861.89	861.88	861.92	862.25	862.17	863.18	864.55	864.42	863.73	863.01	862.30
24	862.13	861.91	861.89	861.96	862.24	862.17	863.28	864.55	864.40	863.70	862.99	862.28
25	862.10	861.92	861.91	861.98	862.22	862.17	863.57	864.54	864.38	863.70	862.97	862.24
26	862.08	861.92	861.87	861.98	862.20	862.15	863.76	864.55	864.35	863.69	862.94	862.19
27	862.07	861.90	861.95	861.96	862.15	862.20	864.02	864.56	864.30	863.65	862.91	862.16
28	862.05	861.89	861.95	861.95	862.13	862.15	864.13	864.55	864.29	863.62	862.89	862.12
29	862.03	861.88	862.07	861.94	---	862.18	864.15	864.55	864.28	863.60	862.85	862.09
30	862.01	861.87	862.08	861.85	---	862.22	864.32	864.54	864.28	863.59	862.83	862.05
31	861.91	---	862.07	861.85	---	862.22	---	864.55	---	863.57	862.82	---
MEAN	862.35	861.94	861.93	861.98	862.14	862.14	862.84	864.61	864.46	863.92	863.21	862.46
MAX	862.72	862.03	862.08	862.07	862.25	862.22	864.32	864.74	864.59	864.28	863.55	862.81
MIN	861.91	861.82	861.86	861.85	861.86	862.08	862.21	864.45	864.28	863.57	862.82	862.05

CAL YR 1982 MEAN 863.34 MAX 864.72 MIN 861.82
WTR YR 1983 MEAN 862.83 MAX 864.74 MIN 861.82

04237500 SENECA RIVER AT BALDWINSVILLE, NY

LOCATION.--Lat 43°09'25", long 76°19'55", Onondaga County, Hydrologic Unit 04140201, on left bank 200 ft downstream from bridge on State Highways 31 and 48 in Baldwinsville, and 400 ft downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal.

DRAINAGE AREA.--3,138 mi^2.

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

REVISED RECORDS.--WDR NY-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 361.38 ft National Geodetic Vertical Datum of 1929 (362.60 ft Erie (Barge) Canal Datum). Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft downstream from base gage at same datum.

REMARKS.--Records good except those below 1,200 ft^3/s, which are fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge computed from November 1949 to September 1982 by using fall as determined by auxiliary water-stage recorder. Since October 1982 discharge computed by using a stage-discharge rating at the base gage. Daily discharge represents the total flow at Baldwinsville and includes flow in Erie (Barge) Canal.

A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in the river basin. Large diurnal fluctuations at low and medium flows caused by powerplants upstream from station. Seneca River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. During part of year, entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin (see station 01529000).

COOPERATION.--Records of lockages at lock 24 furnished by New York State Department of Transportation (since November 1949).

AVERAGE DISCHARGE.--33 years (water years 1951-83), 3,444 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,200 ft^3/s Apr. 4, 1960, June 28, 1972; maximum gage height, 9.21 ft Apr. 4, 1960, June 30, 1972; minimum daily discharge, 237 ft^3/s Nov. 10, 1957; minimum gage height, 0.70 ft Feb. 20, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,900 ft^3/s Apr. 28, May 3, 4; maximum gage height, 7.12 ft May 3; minimum daily discharge, 263 ft^3/s June 27; minimum gage height, 0.98 ft June 27, from minimum stage indicator.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	910	603	2870	3820	1780	1650	2340	12800	5040	607	875	803
2	784	1030	3260	3610	1750	1740	2230	12800	5050	711	937	823
3	889	1170	3250	3150	2490	1660	2000	12900	4770	711	821	746
4	578	1250	3400	2270	4280	1720	1950	12900	3720	1070	985	824
5	530	2380	3370	1930	4280	1560	2020	12700	2680	835	1180	736
6	829	2360	3320	2690	3760	1450	1920	12300	2270	565	1130	729
7	729	2250	3320	3300	3240	1560	2010	11700	2020	498	995	1220
8	522	2010	2810	3240	2420	1530	1920	11200	2450	735	943	965
9	802	1970	3190	3160	1800	1230	1550	10900	1570	911	864	1090
10	778	2230	3190	3120	1790	1140	2020	10400	1040	655	866	1010
11	481	1700	3160	3200	1720	1470	2760	10000	964	501	831	1080
12	432	1860	3070	3160	1710	1470	3010	9750	1230	610	875	1170
13	477	2150	2980	3050	1660	1570	3330	9500	1010	860	976	1000
14	528	1630	2170	2780	1560	1750	3730	9250	817	845	1020	933
15	543	1450	2730	2600	1530	1990	4810	9090	1220	503	1020	1050
16	566	1490	3300	2670	1480	1960	6650	9010	1240	496	963	737
17	478	2040	3360	2600	1390	1650	7520	8850	1280	671	918	1180
18	550	1730	3280	2560	1630	1190	7760	8640	1090	723	1340	1290
19	658	1600	3190	2560	2060	1060	8110	8370	889	605	1880	780
20	689	1330	3110	2530	2180	1130	8540	8150	1100	472	1420	1540
21	1120	1710	2990	2480	2040	1180	8810	7750	1270	643	855	1400
22	1550	1960	3000	2260	1990	1980	9010	7460	1250	747	637	1470
23	1330	1820	2980	2220	2050	3050	9530	7270	1240	922	617	1030
24	796	2280	2960	2230	2050	3180	10200	6630	1200	797	815	828
25	585	3020	3080	2220	2000	2880	11400	5810	1090	715	805	893
26	729	2920	3530	2020	1950	2730	12200	5090	721	960	784	761
27	532	2790	3980	2010	1880	2620	12700	4990	263	685	1010	1300
28	640	2680	4410	2110	1600	2160	12900	4850	856	705	921	973
29	706	2640	4340	2000	---	1950	12700	4710	1300	718	532	599
30	660	2660	4130	1880	---	2320	12800	4680	891	794	639	742
31	735	---	3980	1840	---	2550	---	4900	---	859	1280	---
TOTAL	22136	58713	101710	81270	60070	57080	188430	275350	51531	22129	29734	29702
MEAN	714	1957	3281	2622	2145	1841	6281	8882	1718	714	959	990
MAX	1550	3020	4410	3820	4280	3180	12900	12900	5050	1070	1880	1540
MIN	432	603	2170	1840	1390	1060	1550	4680	263	472	532	599

CAL YR 1982 TOTAL 978658 MEAN 2681 MAX 10700 MIN 381
WTR YR 1983 TOTAL 977855 MEAN 2679 MAX 12900 MIN 263

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, Hydrologic Unit 04140201, at Onondaga Dam on Onondaga Creek, 3.5 mi southwest of Nedrow, 4 mi south of Syracuse, and 10.5 mi upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 mi².

PERIOD OF RECORD.--June 1949 to September 1952 (monthly elevations and contents), October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft between elevations 457.0 ft, conduit invert at intake, and 504.5 ft crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

COOPERATION.--Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 485.9 ft Apr. 1, 1960, contents, 5,960 acre-ft; no contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 475.04 ft Apr. 27, contents, 1,990 acre-ft; minimum elevation, 459.90 ft Sept. 28, 29, no contents many days.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	470.00	700
461.00	5	473.00	1,420
462.00	15	478.00	2,880
464.00	50	482.00	4,230
467.00	225	486.00	6,010

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460.12	460.30	461.21	461.13	460.97	460.99	461.37	470.20	462.01	460.43	460.57	460.55
2	460.08	460.40	460.96	461.07	461.02	460.97	461.26	469.12	461.66	460.35	460.55	460.32
3	460.07	460.31	460.86	461.01	464.97	460.94	461.39	468.51	461.36	460.31	460.41	460.19
4	460.05	460.90	460.80	460.81	465.85	460.90	461.35	467.64	461.53	460.28	460.32	460.12
5	460.06	462.22	460.79	461.11	462.98	460.91	461.22	466.16	461.47	460.26	460.37	460.11
6	460.05	460.96	460.82	460.87	462.73	460.89	461.11	464.89	461.36	460.25	460.68	460.16
7	460.04	460.63	460.76	460.82	462.03	460.88	461.11	464.00	461.88	460.21	460.51	460.13
8	460.09	460.48	460.63	460.82	461.64	460.87	461.45	463.85	461.43	460.19	460.37	460.10
9	460.11	460.38	460.61	460.71	461.60	460.93	461.27	466.07	461.20	460.17	460.33	460.10
10	460.05	460.31	460.48	460.66	461.26	460.94	462.21	465.33	461.03	460.16	460.27	460.17
11	460.05	460.29	460.57	461.12	461.09	461.49	463.38	463.88	460.93	460.13	460.31	460.28
12	460.20	460.38	460.57	461.22	461.11	461.49	462.58	463.28	460.85	460.09	460.60	460.36
13	460.12	461.14	460.44	460.91	460.99	461.20	462.16	462.99	460.77	460.07	460.57	460.18
14	460.09	460.65	460.46	461.16	460.99	461.18	461.91	462.80	460.71	460.06	460.46	460.09
15	460.15	460.48	460.57	460.81	461.03	461.10	462.91	462.65	460.66	460.05	460.38	460.07
16	460.23	460.39	462.13	460.73	461.06	460.99	467.55	463.11	460.62	460.03	460.32	460.06
17	460.41	460.35	461.69	460.66	461.61	460.91	467.57	462.64	461.20	459.99	460.29	460.09
18	460.26	460.31	461.19	460.69	462.09	460.86	465.83	462.26	462.22	460.07	460.35	460.11
19	460.16	460.29	460.85	460.61	461.71	460.87	464.07	462.06	461.25	460.31	460.40	460.08
20	460.12	460.27	460.79	460.57	461.49	460.98	463.95	462.69	460.80	460.38	460.34	460.24
21	460.15	460.44	460.77	460.52	461.53	461.15	464.33	462.33	460.67	460.39	460.27	460.46
22	460.12	461.04	460.73	460.49	461.56	462.16	464.82	461.98	460.57	460.50	460.24	460.77
23	460.10	461.34	460.71	460.54	461.58	461.42	466.40	462.01	460.49	460.40	460.26	460.20
24	460.08	461.15	461.07	461.39	461.42	461.17	468.72	462.15	460.42	460.58	460.24	460.06
25	460.09	461.03	461.95	461.57	461.24	461.03	473.07	461.78	460.36	460.53	460.24	460.01
26	460.10	460.82	462.76	461.36	461.06	460.96	474.21	461.97	460.32	460.35	460.23	459.97
27	460.09	460.77	461.80	461.01	460.99	460.99	474.81	462.00	460.32	460.25	460.23	459.95
28	460.10	460.64	462.81	460.89	461.02	461.54	473.52	461.69	461.07	460.24	460.22	459.92
29	460.09	461.18	462.20	460.85	---	462.52	471.03	461.58	461.06	460.23	460.19	459.90
30	460.08	461.55	461.56	460.84	---	461.81	469.77	461.73	460.61	460.33	460.22	459.91
31	460.08	---	461.20	460.92	---	461.51	---	461.81	---	460.40	460.71	---
MEAN	460.12	460.71	461.12	460.90	461.74	461.18	465.21	463.71	461.03	460.26	460.37	460.16
MAX	460.41	462.22	462.81	461.57	465.85	462.52	474.81	470.20	462.22	460.58	460.71	460.77
MIN	460.04	460.27	460.44	460.49	460.97	460.86	461.11	461.58	460.32	459.99	460.19	459.90
†	0.4	7.1	5.8	4.8	5.0	7.2	836	9.4	2.4	2.6	3.6	0
††	0	+.11	-.02	-.02	0	+.04	+13.9	-13.4	-.12	0	+.02	+.06

CAL YR 1982 MEAN 461.23 MAX 469.83 MIN 459.90 †† 0
WTR YR 1983 MEAN 461.37 MAX 474.81 MIN 459.90 †† 0

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4 mi downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 mi^2.

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 414.19 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

AVERAGE DISCHARGE.--32 years, 125 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft^3/s July 3, 1974, gage height, 6.48 ft; minimum daily, 5.5 ft^3/s Aug. 17, 1965; minimum gage height, 1.15 ft Sept. 16, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft^3/s Apr. 24, gage height, 4.74 ft; minimum, 15 ft^3/s Sept. 16, gage height, 1.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	41	119	100	82	86	96	744	123	43	31	29
2	28	44	96	96	90	85	91	679	100	42	29	22
3	27	38	88	90	442	81	96	623	90	38	25	19
4	25	86	86	70	470	80	96	565	98	37	22	18
5	25	221	85	74	217	80	88	438	93	36	24	19
6	25	97	88	78	177	78	85	323	90	35	34	19
7	24	65	81	81	138	78	85	249	107	33	26	18
8	28	54	70	80	125	78	100	267	86	32	23	17
9	28	48	62	66	110	83	90	438	78	31	23	17
10	25	44	58	69	90	81	172	343	75	30	21	20
11	25	42	68	109	100	117	232	241	75	29	24	22
12	33	48	62	102	100	113	165	210	75	28	32	23
13	27	118	54	70	96	96	135	190	75	27	29	19
14	27	66	58	64	90	96	115	174	75	26	25	17
15	31	55	64	62	86	90	200	165	75	26	23	17
16	37	49	192	62	95	83	613	187	73	25	21	16
17	49	47	160	60	129	78	598	160	98	24	20	17
18	36	44	96	56	157	75	442	138	135	24	25	17
19	31	42	83	56	131	78	267	133	91	24	23	17
20	28	41	83	58	117	86	241	160	69	23	20	22
21	30	56	81	56	119	96	267	138	60	23	19	35
22	28	106	77	54	119	151	327	125	55	26	19	60
23	28	133	75	76	119	106	499	127	50	23	19	29
24	26	113	111	127	109	90	837	129	46	30	19	24
25	26	102	174	125	98	78	1050	109	43	29	19	22
26	26	82	232	107	88	74	1110	127	42	24	19	19
27	26	79	155	86	80	80	996	119	41	21	19	19
28	26	66	241	74	85	113	892	104	83	21	18	17
29	26	121	190	68	---	162	778	98	72	21	17	17
30	26	151	135	72	---	117	807	111	49	25	18	17
31	25	---	107	78	---	104	---	111	---	27	40	---
TOTAL	881	2299	3331	2426	3859	2893	11570	7725	2322	883	726	644
MEAN	28.4	76.6	107	78.3	138	93.3	386	249	77.4	28.5	23.4	21.5
MAX	49	221	241	127	470	162	1110	744	135	43	40	60
MIN	24	38	54	54	80	74	85	98	41	21	17	16

CAL YR 1982 TOTAL 38220 MEAN 105 MAX 762 MIN 17
WTR YR 1983 TOTAL 39559 MEAN 108 MAX 1110 MIN 16

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, Hydrologic Unit 04140201, on right bank 250 ft upstream from bridge on Spencer Street in Syracuse, 1,000 ft upstream from Erie (Barge) Canal terminal, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--110 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WRD NY 1972: 1971(M). WRD NY 1975: 1972(M), 1974(M). WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 362.29 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.75 ft.

AVERAGE DISCHARGE.--13 years, 199 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft^3/s July 3, 1974, gage height, 8.73 ft; minimum, 21 ft^3/s Oct. 24, 1981, gage height, 2.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft^3/s Apr. 30, gage height, 6.95 ft; minimum, 30 ft^3/s Sept. 29, 30, gage height, 2.25 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	64	146	126	115	115	126	878	168	72	50	50
2	48	63	122	122	128	115	120	806	146	68	48	42
3	47	58	111	118	489	111	122	717	134	64	45	39
4	48	150	109	84	497	106	124	637	146	61	45	36
5	49	245	107	94	248	106	117	482	136	63	49	35
6	50	124	113	100	170	106	113	314	136	64	53	36
7	48	91	104	100	179	106	117	222	148	63	47	37
8	48	78	90	106	163	109	136	383	124	60	50	35
9	44	71	78	84	140	111	128	540	113	57	42	34
10	40	65	76	92	110	115	280	436	111	56	43	47
11	42	64	78	138	120	152	289	327	113	53	70	37
12	48	74	76	130	120	146	209	277	111	53	52	42
13	45	132	70	92	110	126	181	262	109	50	48	36
14	45	89	74	86	122	126	159	240	102	49	44	34
15	47	77	88	84	124	118	289	248	101	49	42	33
16	54	70	224	84	128	115	675	254	113	48	41	33
17	64	67	193	78	159	109	619	224	136	45	41	39
18	57	65	106	76	197	102	482	202	150	45	53	34
19	54	61	111	76	172	106	330	204	115	47	40	120
20	52	58	106	78	152	113	314	222	92	47	37	52
21	53	92	106	76	150	150	363	197	88	43	35	132
22	48	124	99	74	152	188	418	181	83	45	40	80
23	42	154	96	100	152	142	577	181	78	43	36	48
24	41	138	142	161	146	120	947	179	74	49	35	40
25	45	128	207	161	134	100	1230	163	71	52	34	39
26	48	107	277	144	118	94	1250	197	70	43	34	36
27	47	104	197	100	107	100	1130	172	71	41	34	34
28	47	99	286	96	117	130	1020	154	144	42	34	33
29	43	148	219	92	---	190	895	148	106	52	34	32
30	40	172	159	100	---	144	1130	176	81	44	37	33
31	39	---	130	110	---	132	---	186	---	65	57	---
TOTAL	1476	3032	4100	3162	4719	3803	13890	9809	3370	1633	1350	1358
MEAN	47.6	101	132	102	169	123	463	316	112	52.7	43.5	45.3
MAX	64	245	286	161	497	190	1250	878	168	72	70	132
MIN	39	58	70	74	107	94	113	148	70	41	34	32

CAL YR 1982 TOTAL 53324 MEAN 146 MAX 804 MIN 34
WTR YR 1983 TOTAL 51702 MEAN 142 MAX 1250 MIN 32

04240100 HARBOR BROOK AT SYRACUSE, NY

LOCATION.--Lat 43°02'09", long 76°10'55", Onondaga County, Hydrologic Unit 04140201, on left bank 160 ft upstream from bridge on Holden Street at Syracuse, 220 ft downstream from gated outlet of Velasko Road Detention Basin, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--10.0 mi^2.

PERIOD OF RECORD.--June 1959 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-82-3: 1981 (M).

GAGE.--Water-stage recorder. Datum of gage is 391.16 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1978, at site 1,660 ft upstream and Oct. 1, 1978 to May 31, 1980, at site 1,800 ft upstream at datum 3.63 ft higher.

REMARKS.--Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flows can be regulated at detention basin by Onondaga County.

AVERAGE DISCHARGE.--24 years, 9.02 ft^3/s, 12.25 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 726 ft^3/s July 3, 1974, gage height, 8.34 ft datum then in use, from rating curve extended above 180 ft^3/s on basis of slope-area measurements of peak flow; minimum, 0.11 ft^3/s, gage height, 0.77 ft Aug. 8, 1980, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 205 ft^3/s Apr. 30 at 0515 hours, gage height, 5.06 ft, from rating curve extended above 60 ft^3/s on basis of indirect measurement of peak flow; minimum daily, 2.6 ft^3/s Sept. 13, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	6.0	4.5	4.5	3.2	4.9	3.5	41	9.1	4.7	3.4	4.3
2	3.8	5.3	4.5	4.3	5.5	4.9	3.4	45	8.4	4.9	3.4	4.3
3	4.0	4.9	4.5	3.8	36	4.9	3.2	41	8.1	5.3	3.8	4.5
4	3.5	14	4.7	3.7	11	5.1	3.1	33	8.6	5.3	4.2	4.3
5	4.0	6.4	4.9	3.7	6.6	5.1	2.8	28	7.7	5.5	5.3	4.5
6	4.5	4.9	5.8	3.7	6.0	5.3	2.8	26	8.1	4.9	4.0	4.2
7	4.7	4.7	5.1	3.7	5.8	6.0	3.7	23	7.7	4.7	4.3	3.4
8	5.1	4.5	5.1	3.8	5.1	5.5	3.2	31	7.2	4.7	5.3	2.9
9	4.9	4.2	5.5	3.7	4.9	5.5	2.8	31	7.0	5.3	3.4	3.1
10	4.7	4.3	5.3	3.5	4.5	6.2	17	22	6.8	5.1	3.4	4.0
11	5.5	4.2	5.3	4.9	4.5	7.7	8.1	20	6.8	5.1	5.1	2.9
12	5.1	4.9	5.3	3.5	4.5	5.8	6.2	20	6.8	5.5	3.7	2.8
13	4.9	4.0	4.9	3.5	4.5	5.5	5.3	18	6.8	5.3	3.2	2.6
14	4.9	3.7	4.3	3.2	4.5	5.5	5.1	17	6.6	5.3	3.5	2.9
15	5.1	3.7	5.5	3.2	4.5	5.5	23	18	6.6	5.5	3.7	2.6
16	6.0	3.5	9.9	3.1	4.9	5.3	46	17	11	5.5	3.8	2.8
17	5.3	3.7	5.8	3.1	6.4	5.3	23	15	7.9	5.8	4.2	3.8
18	5.3	3.8	4.9	3.1	7.0	5.1	16	15	6.6	5.5	4.9	2.8
19	4.7	3.8	4.9	3.1	6.0	5.3	14	14	6.4	5.8	3.8	8.9
20	5.5	4.0	5.1	3.1	5.5	5.5	14	14	6.2	6.2	4.2	8.1
21	4.9	7.7	4.7	3.1	5.3	7.4	18	13	6.0	6.4	4.5	12
22	5.3	4.5	4.7	3.1	5.1	5.8	22	13	5.8	6.4	4.7	4.5
23	5.1	5.8	5.1	4.2	5.1	4.5	48	12	5.5	6.6	4.3	4.0
24	5.1	5.3	8.1	4.3	5.1	4.5	95	11	5.5	7.2	4.7	3.2
25	5.1	4.7	8.4	4.7	5.1	4.3	74	11	5.5	7.7	4.9	2.9
26	4.2	4.7	8.4	3.8	4.9	3.4	69	13	5.5	7.9	5.1	2.9
27	3.8	4.5	5.3	3.4	4.9	3.7	36	10	5.8	7.7	5.3	2.9
28	3.7	5.1	9.6	3.2	4.9	4.3	30	9.6	10	8.6	5.5	3.4
29	4.0	6.0	5.5	3.1	---	4.3	27	9.4	5.1	6.8	5.3	2.9
30	4.3	4.9	4.7	3.4	---	3.7	97	12	4.9	4.7	4.9	2.8
31	4.3	---	4.5	3.8	---	3.5	---	12	---	6.0	4.7	---
TOTAL	145.3	151.7	174.8	112.3	181.3	159.3	722.2	615.0	210.0	181.9	134.5	121.2
MEAN	4.69	5.06	5.64	3.62	6.48	5.14	24.1	19.8	7.00	5.87	4.34	4.04
MAX	6.0	14	9.9	4.9	36	7.7	97	45	11	8.6	5.5	12
MIN	3.5	3.5	4.3	3.1	3.2	3.4	2.8	9.4	4.9	4.7	3.2	2.6
CFSM	.47	.51	.56	.36	.65	.51	2.41	1.98	.70	.59	.43	.40
IN.	.54	.56	.65	.42	.67	.59	2.69	2.29	.78	.68	.50	.45

CAL YR 1982 TOTAL 2610.0 MEAN 7.15 MAX 68 MIN 2.7 CFSM .72 IN 9.71
WTR YR 1983 TOTAL 2909.5 MEAN 7.97 MAX 97 MIN 2.6 CFSM .80 IN 10.82

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, Hydrologic Unit 04140201, on left bank 250 ft downstream from culvert on Hiawatha Boulevard, in Syracuse, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--11.3 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. October 1970 to current year.

REVISED RECORDS.--WDR NY-76-1: 1971-75 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 365.86 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flow can be regulated at Velasko Road Detention Basin 2.1 mi upstream.

AVERAGE DISCHARGE.--13 years, 14.9 ft³/s, 17.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 824 ft³/s July 3, 1974, gage height, 7.91 ft from rating curve extended above 160 ft³/s on basis of step-backwater computations; maximum gage height, 8.15 ft Sept. 26, 1975 (backwater from debris jam); minimum discharge, 1.0 ft³/s June 25, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 297 ft³/s Apr. 30 at 0130 hours, gage height, 5.06 ft; minimum 2.3 ft³/s Oct. 5, gage height, 1.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	6.7	4.1	4.4	4.0	5.5	5.1	60	10	5.3	4.9	3.4
2	3.4	4.9	3.7	4.1	7.0	5.3	5.1	54	9.2	5.1	4.2	3.4
3	3.6	3.7	4.1	4.0	45	5.3	5.5	46	8.9	4.9	3.9	3.3
4	2.7	22	4.2	3.9	15	5.3	5.1	38	11	5.3	3.9	3.3
5	2.5	6.9	3.9	3.7	9.0	5.3	5.1	32	8.4	5.6	5.3	3.3
6	2.9	4.2	4.5	3.7	7.0	5.1	4.9	28	9.7	4.9	3.9	3.7
7	2.9	3.9	3.3	4.1	6.6	5.8	6.7	26	13	4.5	3.4	4.7
8	3.6	3.6	3.3	3.9	6.0	5.8	4.9	37	11	4.5	5.1	3.4
9	3.0	3.6	3.6	3.9	5.6	5.3	4.9	36	7.1	4.9	3.9	2.9
10	2.9	3.6	3.4	5.3	5.2	8.1	31	24	7.4	4.4	3.3	6.0
11	4.9	4.1	3.4	7.9	5.0	10	11	22	7.1	5.6	10	3.0
12	3.4	4.9	3.4	4.9	5.0	6.3	8.1	21	6.9	4.5	5.1	3.0
13	3.2	3.7	3.3	4.7	4.9	6.0	7.4	19	6.7	4.4	3.9	3.0
14	3.3	3.4	3.6	4.7	4.8	5.8	7.4	17	6.5	4.4	3.6	3.0
15	4.1	3.4	4.7	5.1	5.5	5.5	36	19	6.5	4.4	3.7	2.9
16	6.3	3.6	10	4.9	6.5	5.3	59	17	22	4.4	3.6	3.0
17	4.1	3.6	4.4	4.9	7.4	5.1	32	15	13	4.4	3.7	5.6
18	3.7	3.3	4.5	4.5	8.1	5.3	22	14	6.7	4.4	7.1	3.2
19	3.6	3.4	5.3	4.2	6.7	5.6	19	17	6.0	4.2	3.6	21
20	3.7	3.4	4.2	4.1	6.5	5.3	22	15	5.8	4.1	3.4	13
21	5.8	10	4.1	4.0	6.5	12	30	13	5.8	4.1	3.3	23
22	6.0	5.8	4.1	3.9	6.3	7.4	33	13	5.5	4.1	5.1	4.7
23	3.9	7.1	4.2	4.7	5.6	5.5	52	12	5.3	4.1	3.6	5.1
24	3.7	5.8	9.7	5.0	6.3	4.9	97	11	5.3	6.0	4.2	5.3
25	3.6	4.1	8.6	5.2	5.5	4.7	85	11	5.1	4.2	4.4	5.5
26	3.6	4.5	9.7	4.5	5.3	4.7	73	17	5.1	4.1	4.5	5.3
27	3.7	4.1	6.7	4.0	5.5	5.8	49	10	5.3	3.9	4.1	5.3
28	3.6	5.8	13	3.7	5.5	7.4	40	10	19	4.2	3.6	5.6
29	3.7	6.9	6.5	3.6	---	6.5	37	10	5.6	6.3	3.6	5.3
30	3.7	4.4	4.9	3.8	---	5.6	124	14	5.5	4.4	3.9	4.2
31	3.7	---	4.4	4.1	---	5.8	---	18	---	9.7	4.2	---
TOTAL	116.8	158.4	160.8	137.4	217.3	187.3	922.2	696	250.4	149.3	134.0	167.4
MEAN	3.77	5.28	5.19	4.43	7.76	6.04	30.7	22.5	8.35	4.82	4.32	5.58
MAX	6.3	22	13	7.9	45	12	124	60	22	9.7	10	23
MIN	2.5	3.3	3.3	3.6	4.0	4.7	4.9	10	5.1	3.9	3.3	2.9
CFSM	.33	.47	.46	.39	.69	.54	2.72	1.99	.74	.43	.38	.49
IN.	.38	.52	.53	.45	.72	.62	3.04	2.29	.82	.49	.44	.55

CAL YR 1982 TOTAL 2930.5 MEAN 8.03 MAX 69 MIN 2.3 CFSM .71 IN 9.65
WTR YR 1983 TOTAL 3297.3 MEAN 9.03 MAX 124 MIN 2.5 CFSM .80 IN 10.85

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, Hydrologic Unit 04140201, on left bank 0.2 mi upstream from bridge on Park Street, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--29.9 mi^2.

PERIOD OF RECORD.--Occasional measurements water years 1959-72. December 1972 to current year.

REVISED RECORDS.--WDR NY 76-1: 1975 (M).

GAGE.--Water-stage recorder. Datum of gage is 362.76 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at same site at datum 0.08 ft higher.

REMARKS.--Records fair except those for winter periods and those for periods of backwater from Onondaga Lake Apr. 17 to May 25 and May 28, 29, which are poor. Flow may be affected by backwater from Onondaga Lake whenever the lake water surface elevation exceeds about 363.0 ft.

AVERAGE DISCHARGE.--10 years (water years 1974-83), 45.5 ft^3/s, 20.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft^3/s Sept. 26, 1975, gage height, 6.17 ft, from rating curve extended above 530 ft^3/s; minimum daily, 1.9 ft^3/s Feb. 6, 7, 1977; minimum gage height, 0.28 ft Feb. 6-8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 686 ft^3/s Apr. 26, no other peak above base of 450 ft^3/s; maximum gage height, 5.15 ft Apr. 30, backwater from Onondaga Lake; minimum daily discharge, 5.2 ft^3/s Oct. 4, 5; minimum gage height, 0.43 ft Sept. 12-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	22	41	24	40	22	23	180	100	31	17	11
2	6.3	20	32	20	63	22	20	130	56	28	12	9.4
3	6.0	12	27	17	213	22	22	90	36	19	11	9.4
4	5.2	98	25	14	151	22	21	60	38	17	11	8.9
5	5.2	98	23	17	80	25	19	45	28	14	15	11
6	5.6	39	30	19	40	24	19	42	31	12	13	13
7	5.6	25	24	20	30	26	25	40	32	11	11	11
8	9.4	19	21	22	27	27	26	60	26	11	10	9.9
9	6.0	17	19	17	24	31	21	100	25	12	13	9.9
10	6.0	17	17	19	22	34	158	90	24	11	10	52
11	7.6	17	16	67	20	69	104	70	24	11	29	11
12	7.6	21	15	47	18	49	61	50	23	12	19	8.0
13	6.7	27	14	34	17	39	40	43	22	11	12	7.2
14	6.7	17	15	29	20	31	30	40	24	11	8.9	7.2
15	10	16	25	24	22	24	117	45	24	11	9.4	7.2
16	9.4	15	86	25	27	19	313	41	26	11	9.4	7.2
17	10	15	51	24	41	17	273	39	44	11	9.4	12
18	6.7	15	28	23	51	17	211	37	76	11	24	9.9
19	6.3	15	21	21	47	21	146	37	32	10	13	18
20	6.3	15	19	20	40	31	228	36	30	10	11	117
21	6.7	86	19	19	38	72	326	34	30	10	9.9	90
22	6.7	92	20	21	38	83	378	33	29	10	25	56
23	6.7	98	22	38	37	42	406	31	29	10	13	17
24	6.3	72	90	66	34	30	473	30	28	15	10	11
25	6.3	48	96	77	28	24	655	35	27	13	9.9	8.5
26	6.7	36	108	66	23	22	686	60	26	11	10	7.6
27	7.2	31	67	52	20	22	200	36	29	10	10	8.0
28	7.2	27	138	37	21	38	54	28	108	11	10	8.9
29	8.0	79	74	28	---	55	50	24	49	20	11	9.4
30	7.6	59	48	27	---	36	250	53	29	13	13	10
31	7.6	---	32	45	---	27	---	56	---	30	34	---
TOTAL	217.2	1168	1263	979	1232	1023	5355	1695	1105	428	423.9	576.6
MEAN	7.01	38.9	40.7	31.6	44.0	33.0	179	54.7	36.8	13.8	13.7	19.2
MAX	10	98	138	77	213	83	686	180	108	31	34	117
MIN	5.2	12	14	14	17	17	19	24	22	10	8.9	7.2
CFSM	.23	1.30	1.36	1.06	1.47	1.10	5.99	1.83	1.23	.46	.46	.64
IN.	.27	1.45	1.57	1.22	1.53	1.27	6.66	2.11	1.37	.53	.53	.72

CAL YR 1982 TOTAL 12397.5 MEAN 34.0 MAX 440 MIN 5.2 CFSM 1.14 IN 15.42
WTR YR 1983 TOTAL 15465.7 MEAN 42.4 MAX 686 MIN 5.2 CFSM 1.42 IN 19.24

04240145 SPAFFORD CREEK AT BROMLEY ROAD, NEAR SPAFFORD, NY

LOCATION.--Lat 42°47'15", Long 76°11'49", Onondaga County, Hydrologic Unit 04140201, on right bank just upstream from culvert on Bromley Road, 0.4 mi west of intersection with Otisco Valley Road, 3.6 mi southeast of Spafford, and 4.2 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3.14 mi^2 .

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1981 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,020 ft from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128 ft^3/s July 7, 1982, gage height, 4.14 ft; flood of Oct. 28, 1981 was considerably higher, discharge not determined; minimum daily discharge, 1.2 ft^3/s Jan. 26, 27, 1982; minimum gage height, 1.90 ft many days in 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 63 ft^3/s Apr. 24, gage height, 3.15 ft; minimum discharge, 1.6 ft^3/s Oct. 29, 30, 31; minimum gage height, 1.92 ft Oct. 5, 6, 29, 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	5.7	5.4	4.9	3.7	3.9	4.5	21	5.7	3.4	3.4	1.9
2	2.2	2.6	5.2	4.7	7.0	3.9	4.5	17	5.2	3.3	2.8	1.9
3	2.2	2.2	4.9	4.5	24	3.7	5.2	16	4.9	3.2	2.4	1.8
4	2.2	11	4.9	3.8	13	3.9	4.7	14	5.2	3.1	2.5	1.9
5	2.0	4.9	4.5	3.1	8.5	3.9	4.5	11	4.9	3.1	4.7	2.5
6	1.9	3.5	4.9	3.7	5.4	4.1	4.3	8.9	6.9	3.0	2.4	2.1
7	2.0	3.3	4.3	3.7	4.4	4.3	4.9	7.5	4.9	3.0	2.1	1.9
8	2.0	3.1	4.1	3.5	3.6	4.7	4.9	17	4.4	2.9	2.2	1.9
9	2.0	2.9	3.2	3.2	3.2	4.7	4.3	14	4.2	2.8	2.2	1.9
10	2.0	2.8	1.8	3.5	2.7	5.2	9.9	12	4.2	2.7	1.9	2.4
11	2.3	2.9	2.4	5.2	2.4	6.7	6.2	11	4.0	2.6	2.7	2.1
12	2.0	3.3	2.0	3.7	2.2	5.2	6.2	10	3.8	2.7	2.5	1.9
13	1.9	3.3	2.0	2.9	2.0	5.2	5.7	8.6	3.8	2.7	2.2	1.9
14	2.0	2.9	3.0	2.9	1.9	4.7	5.4	8.2	3.8	2.7	2.1	1.9
15	2.6	2.8	3.4	3.5	3.4	4.7	21	8.6	3.8	2.7	2.1	1.9
16	2.5	2.8	10	3.2	3.8	4.7	20	9.3	3.8	2.7	2.1	1.9
17	2.3	2.8	5.2	3.0	4.0	4.5	18	6.9	5.7	2.5	2.1	2.1
18	1.9	2.8	2.6	2.9	5.0	4.5	13	6.6	3.8	2.7	2.4	2.1
19	1.9	2.8	3.0	2.8	3.9	4.7	11	7.9	3.6	2.7	2.1	1.9
20	1.9	2.8	3.5	2.7	3.8	4.9	10	8.6	3.6	2.5	1.9	1.9
21	2.2	4.7	4.0	2.6	4.3	6.4	8.5	6.6	3.6	2.8	1.9	4.4
22	1.9	4.5	4.1	2.7	4.5	6.4	9.9	6.9	3.6	2.8	2.2	2.4
23	1.9	4.5	3.9	3.4	4.7	4.9	16	7.2	3.4	2.7	2.1	2.1
24	1.9	4.9	5.9	4.8	4.1	4.9	28	6.6	3.2	3.4	1.9	2.1
25	1.9	4.1	9.9	5.2	3.9	4.0	25	6.3	3.0	2.7	1.9	1.9
26	1.9	4.1	7.6	4.8	3.5	4.5	32	6.9	3.0	2.5	1.9	1.9
27	1.9	3.9	7.0	3.4	3.7	4.7	25	6.0	3.0	2.5	1.9	1.9
28	1.8	4.5	12	3.2	3.7	6.5	23	5.7	7.0	2.4	1.9	1.9
29	1.8	8.2	7.3	4.1	---	5.9	16	5.7	3.9	2.8	1.9	1.9
30	1.8	6.7	6.2	5.6	---	4.7	24	6.0	3.4	3.0	2.1	1.9
31	2.0	---	5.4	6.0	---	4.7	---	6.6	---	3.4	2.2	---
TOTAL	63.0	121.3	153.6	117.2	140.3	149.7	375.6	294.6	127.3	88.0	70.7	62.2
MEAN	2.03	4.04	4.95	3.78	5.01	4.83	12.5	9.50	4.24	2.84	2.28	2.07
MAX	2.6	11	12	6.0	24	6.7	32	21	7.0	3.4	4.7	4.4
MIN	1.8	2.2	1.8	2.6	1.9	3.7	4.3	5.7	3.0	2.4	1.9	1.8
CFSM	.65	1.29	1.58	1.20	1.60	1.54	3.98	3.03	1.35	.90	.73	.66
IN.	.75	1.44	1.82	1.39	1.66	1.77	4.45	3.49	1.51	1.04	.84	.74

CAL YR 1982 TOTAL 1935.2 MEAN 5.30 MAX 35 MIN 1.2 CFSM 1.69 IN 22.92
WTR YR 1983 TOTAL 1763.5 MEAN 4.83 MAX 32 MIN 1.8 CFSM 1.54 IN 20.89

04240145 SPAFFORD CREEK AT BROMLEY ROAD, NEAR SPAFFORD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (e).
SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended-sediment analyses done by U.S. Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 370 mg/L Apr. 24, 26, 1983; minimum daily mean, 1 mg/L July 25-27, Sept.25,26 1982.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 32 tons Apr. 26, 1983; minimum daily, 0.00 tons July 25-27, Sept.25,26 1982.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 370 mg/L Apr. 24, 26; minimum daily mean 2 mg/L October 1-9.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 32 tons Apr. 26; minimum daily .01 tons October 1-9.

WATER-QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT							
06...	0835	83631	2.0	2	.01	1.2	.140
26...	1005	83631	1.8	8	.04	.03	<.100
NOV							
09...	0830	83620	2.9	4	.03	.80	--
DEC							
01...	0815	83620	5.4	8	.12	.90	--
14...	0840	83620	2.9	7	.05	.98	.026
JAN							
04...	0835	83620	3.3	10	.09	.97	--
24...	0900	83620	5.3	23	.33	1.0	--
24...	0905	83620	--	--	--	.73	--
FEB							
03...	0920	83620	20	112	6.0	.60	--
04...	0815	83620	9.5	35	.90	.97	--
15...	0930	83620	3.7	8	.08	.94	--
28...	0830	83620	3.9	--	--	.47	--
MAR							
22...	0920	83620	--	--	--	.64	.034
APR							
14...	0830	83620	5.4	6	.09	1.0	--
15...	1125	83620	31	970	81	.38	--
15...	1340	83620	25	244	16	.39	--
16...	0750	83620	18	82	4.0	.85	--
25...	0845	83620	26	103	7.2	1.0	--
26...	0830	83620	22	49	2.9	.91	--
27...	0800	83620	21	51	2.9	.97	--
MAY							
05...	0830	83620	11	26	.77	.86	--
18...	0910	83620	6.9	11	.20	1.8	--
JUN							
07...	0830	83620	5.2	13	.18	1.7	--
21...	0845	83620	3.6	10	.10	.97	--
21...	0850	83620	--	--	--	1.1	--
JUL							
12...	0830	83620	3.0	8	.06	2.1	--

04240145 SPAFFORD CREEK AT BROMLEY ROAD, NEAR SPAFFORD, NY--Continued

WATER-QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
AUG							
02...	1015	83620	2.8	9	.07	1.4	.048
23...	0840	83620	2.2	2	.01	1.2	--
SEP							
08...	0830	83620	1.9	7	.04	1.1	--
27...	0845	83620	1.9	1	.00	1.3	.038
OCT							
18...	0830	83620	1.9	1	.00	1.0	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOSPHORUS, ORGANIC DISSOLVED (MG/L AS P)
OCT						
06...	.17	.068	.045	.008	.04	.00
26...	.27	.063	.045	.015	.03	.02
NOV						
09...	.17	.020	.010	<.010	<.01	.00
DEC						
01...	.20	.030	.020	<.010	<.01	.01
14...	<.12	.026	<.019	<.010	.01	--
JAN						
04...	--	.025	.010	.010	.01	.00
24...	--	.036	.006	.006	.01	.00
24...	--	.094	.004	.002	<.01	<.01
FEB						
03...	--	.161	.013	.011	.01	.00
04...	--	.063	.015	.009	.01	.00
15...	--	.021	.010	.006	<.01	<.01
28...	--	.013	.001	.000	<.01	<.01
MAR						
22...	<.15	.024	<.010	<.010	<.01	<.01
APR						
14...	--	.037	.004	.004	<.01	<.01
15...	--	.530	.007	.003	<.01	<.01
15...	--	.182	.005	.001	<.01	<.01
16...	--	.190	.005	.000	<.01	<.01
25...	--	.092	.015	.010	.02	.00
26...	--	.058	.017	.000	.01	.00
27...	--	.047	.007	.000	<.01	--
MAY						
05...	--	.015	.015	.004	.02	.00
18...	--	.010	.005	.000	<.01	--
JUN						
07...	--	.015	.001	.000	<.01	--
21...	--	.017	.016	.001	<.01	--
21...	--	.022	.020	.000	<.01	--

04240145 SPAFFORD CREEK AT BROMLEY ROAD, NEAR SPAFFORD, NY--Continued

WATER-QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS-PHORUS, ORGANIC DIS-SOLVED (MG/L AS P)
JUL						
12...	--	.006	.005	.000	<.01	--
AUG						
02...	.45	.038	.019	<.010	<.02	--
23...	--	.066	.005	.005	.01	.00
SEP						
08...	--	.032	.011	.004	<.01	--
27...	.68	<.021	<.020	<.010	<.02	--
OCT						
18...	--	.015	.007	.002	<.01	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
APR							
15...	1125	31	970	81	29	44	62

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
APR						
15...	78	89	93	98	99	100

04240145 SPAFFORD CREEK AT BROMLEY ROAD, NEAR SPAFFORD, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2	.01	16	.37	9	.13	7	.09	12	.12	7	.07
2	2	.01	7	.05	7	.10	6	.08	41	1.5	7	.07
3	2	.01	6	.04	7	.09	6	.07	191	13	8	.08
4	2	.01	121	4.7	11	.15	11	.11	36	1.3	8	.08
5	2	.01	38	.65	21	.26	14	.12	27	.62	7	.07
6	2	.01	7	.07	15	.20	13	.13	32	.47	7	.08
7	2	.01	6	.05	12	.14	12	.12	27	.32	7	.08
8	2	.01	5	.04	11	.12	17	.16	19	.18	8	.10
9	2	.01	4	.03	12	.10	13	.11	16	.14	8	.10
10	3	.02	3	.02	12	.06	13	.12	14	.10	12	.17
11	5	.03	3	.02	12	.08	14	.20	12	.08	22	.42
12	4	.02	5	.04	11	.06	10	.10	10	.06	12	.17
13	3	.02	5	.04	9	.05	9	.07	18	.10	6	.08
14	3	.02	5	.04	7	.06	10	.08	16	.08	7	.09
15	5	.04	5	.04	10	.09	12	.11	9	.08	7	.09
16	5	.03	5	.04	94	3.4	12	.10	8	.08	7	.09
17	3	.02	5	.04	26	.37	12	.10	8	.09	7	.09
18	3	.02	5	.04	12	.08	12	.09	8	.11	5	.06
19	3	.02	5	.04	8	.06	11	.08	7	.07	6	.08
20	3	.02	5	.04	9	.09	11	.08	10	.10	8	.11
21	5	.03	16	.26	10	.11	11	.08	16	.19	7	.12
22	4	.02	12	.15	9	.10	10	.07	14	.17	6	.10
23	3	.02	11	.13	10	.11	10	.09	12	.15	21	.28
24	4	.02	12	.16	21	.40	19	.25	11	.12	21	.28
25	5	.03	12	.13	31	.96	14	.20	8	.08	17	.18
26	5	.03	11	.12	21	.46	11	.14	7	.07	19	.23
27	5	.03	11	.12	8	.15	11	.10	8	.08	20	.25
28	5	.02	15	.22	24	.89	10	.09	8	.08	32	.56
29	5	.02	31	.71	13	.26	10	.11	---	---	28	.45
30	4	.02	21	.41	10	.17	29	.44	---	---	19	.24
31	6	.03	---	---	8	.12	17	.28	---	---	19	.24
TOTAL	---	0.62	---	8.81	---	9.42	---	3.97	---	19.54	---	5.11

DAY	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DIS-CHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19	.23	173	9.8	26	.40	13	.12	13	.12	6	.03
2	19	.23	120	5.5	24	.34	12	.11	11	.08	6	.03
3	24	.34	111	4.8	21	.28	12	.10	8	.05	6	.03
4	18	.23	90	3.4	24	.34	11	.09	9	.06	6	.03
5	19	.23	64	1.9	21	.28	11	.09	110	1.4	19	.13
6	18	.21	50	1.2	51	.95	11	.09	8	.05	7	.04
7	21	.28	38	.77	21	.28	11	.09	7	.04	6	.03
8	21	.28	146	6.7	19	.23	10	.08	7	.04	6	.03
9	18	.21	90	3.4	18	.20	11	.08	7	.04	6	.03
10	86	2.3	74	2.4	18	.20	10	.07	6	.03	8	.05
11	30	.50	64	1.9	17	.18	9	.06	10	.07	7	.04
12	30	.50	56	1.5	16	.16	10	.07	9	.06	6	.03
13	26	.40	47	1.1	16	.16	10	.07	7	.04	6	.03
14	25	.36	43	.95	16	.16	10	.07	7	.04	6	.03
15	282	16	47	1.1	16	.16	10	.07	7	.04	6	.03
16	152	8.2	52	1.3	16	.16	10	.07	7	.04	6	.03
17	130	6.3	34	.63	201	3.1	9	.06	7	.04	7	.04
18	83	2.9	33	.59	16	.16	10	.07	8	.05	7	.04
19	67	2.0	40	.85	14	.14	10	.07	7	.04	6	.03
20	56	1.5	47	1.1	14	.14	9	.06	6	.03	6	.03
21	48	1.1	33	.59	14	.14	11	.08	6	.03	65	.77
22	56	1.5	34	.63	14	.14	11	.08	7	.04	8	.05
23	141	6.1	36	.70	13	.12	10	.07	7	.04	7	.04
24	370	28	33	.59	12	.10	13	.12	6	.03	7	.04
25	207	14	30	.51	11	.09	10	.07	6	.03	6	.03
26	370	32	34	.63	11	.09	9	.06	6	.03	6	.03
27	207	14	28	.45	11	.09	9	.06	6	.03	6	.03
28	177	11	26	.40	35	.66	8	.05	6	.03	6	.03
29	111	4.8	26	.40	16	.17	11	.08	6	.03	6	.03
30	247	16	28	.45	13	.12	11	.09	7	.04	6	.03
31	---	---	36	.64	---	---	13	.12	7	.04	---	---
TOTAL	---	171.70	---	56.88	---	9.74	---	2.47	---	2.73	---	1.84

04240150 SPAFFORD CREEK AT SAWMILL ROAD, NEAR SPAFFORD, NY

LOCATION.--Lat 42°49'33", Long 76°14'08", Onondaga County, Hydrologic Unit 04140201, on right bank just upstream from culvert on Sawmill Road, 0.2 mi west of intersection with Otisco Valley Road, 1.0 mi upstream from mouth, and 2.1 mi northeast of Spafford. Water-quality sampling site at discharge station.

DRAINAGE AREA.--8.06 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1981 to September 1983 (discontinued).

GAGE.--Watr-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 192 f^3/s July 8, 1982, gage height 5.10 ft; flood of Oct. 28, 1981 was considerably higher, discharge not determined; minimum discharge, 1.4 ft^3/s July 20, 21, Sept. 4, 1983; minimum gage height, 0.76 ft July 20, 21, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft^3/s Apr. 24, gage height, 4.96 ft; minimum discharge, 1.4 ft^3/s July 20, 21, Sept. 4; minimum gage height, 0.76 ft July 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	11	12	13	11	9.9	10	61	12	3.7	4.2	2.0
2	2.9	5.6	12	13	22	9.7	10	59	9.0	3.6	4.0	1.8
3	2.9	4.6	11	12	92	9.5	11	59	8.2	3.4	2.4	1.8
4	2.9	24	11	11	30	9.5	10	48	8.8	3.3	2.4	1.8
5	2.9	17	10	8.0	19	9.5	9.7	36	8.1	3.3	4.8	2.5
6	3.0	9.7	11	10	15	9.2	9.2	29	12	3.2	4.1	3.3
7	2.9	8.2	9.0	10	13	9.9	10	25	9.2	3.2	2.5	2.2
8	3.4	7.5	8.6	9.2	11	10	11	38	6.9	3.0	2.2	2.0
9	3.3	6.8	8.1	8.4	10	11	9.4	37	6.2	3.0	2.8	2.0
10	2.9	6.6	4.0	9.0	9.0	11	25	27	6.1	2.9	2.1	2.8
11	3.4	6.9	5.6	17	8.0	14	17	25	5.9	2.9	2.9	2.1
12	3.6	8.4	4.3	12	7.4	12	15	23	5.7	2.9	3.2	2.0
13	3.0	9.0	4.4	9.0	6.8	11	14	20	5.4	2.6	2.8	2.0
14	2.9	7.3	6.6	8.0	6.4	11	13	18	5.2	2.3	2.3	1.9
15	4.8	8.8	7.8	10	9.0	11	56	18	5.1	2.3	2.1	1.9
16	4.3	6.2	24	9.2	10	9.9	70	18	4.9	2.3	2.1	1.9
17	4.9	6.4	7.3	8.8	10	9.7	50	15	8.4	2.2	2.0	2.2
18	3.4	6.2	4.9	8.4	12	9.5	34	13	7.7	2.3	2.8	2.0
19	3.3	6.2	6.2	8.0	10	9.7	27	14	4.9	2.0	2.3	2.1
20	3.2	6.1	7.5	7.8	10	11	25	20	4.6	2.1	2.1	2.3
21	3.7	8.6	9.0	7.8	11	15	21	13	4.6	2.6	1.9	6.2
22	3.0	12	9.0	7.8	12	15	26	13	4.3	3.2	2.1	3.7
23	2.9	12	9.2	10	12	12	50	15	4.0	2.6	2.4	2.4
24	3.0	12	15	15	11	12	86	13	3.9	4.4	2.0	2.4
25	3.0	8.2	22	17	10	12	91	11	3.7	2.9	1.9	2.2
26	3.0	9.9	20	15	9.6	11	101	14	3.7	2.7	1.9	2.2
27	3.0	7.9	14	10	9.8	12	79	11	3.7	2.4	1.9	2.2
28	2.9	5.6	31	9.0	8.2	17	64	10	10	2.4	1.9	2.2
29	3.0	9.0	18	12	---	15	47	9.9	4.8	2.8	1.9	2.0
30	3.0	16	16	19	---	12	80	11	3.9	3.4	1.9	2.2
31	4.0	---	14	22	---	11	---	11	---	3.0	2.3	---
TOTAL	101.6	273.7	352.5	346.4	405.2	352.0	1081.3	734.9	190.9	88.9	78.2	70.3
MEAN	3.28	9.12	11.4	11.2	14.5	11.4	36.0	23.7	6.36	2.87	2.52	2.34
MAX	4.9	24	31	22	92	17	101	61	12	4.4	4.8	6.2
MIN	2.9	4.6	4.0	7.8	6.4	9.2	9.2	9.9	3.7	2.0	1.9	1.8
CFSM	.37	1.04	1.30	1.28	1.66	1.30	4.11	2.71	.73	.33	.29	.27
IN.	.43	1.16	1.50	1.47	1.72	1.49	4.59	3.12	.81	.38	.33	.30

CAL YR 1982 TOTAL 3896.7 MEAN 10.7 MAX 90 MIN 2.0 CFSM 1.22 IN 16.55
WTR YR 1983 TOTAL 4075.9 MEAN 11.2 MAX 101 MIN 1.8 CFSM 1.28 IN 17.31

04240150 SPAFFORD CREEK AT SAWMILL ROAD, NEAR SPAFFORD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (e).
SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended sediment analyses done by U.S. Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1370 mg/L Apr. 24, 1983; minimum daily mean 1 mg/L Sept. 30,1983.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 421 tons Apr. 24,1983; minimum daily 0.01 tons on Sept. 30, 1983.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1370 mg/L Apr. 24; minimum daily mean 1 mg/L Sept. 30.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 421 tons Apr. 24; minimum daily 0.01 tons on Sept. 30.

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT							
06...	1200	83631	2.7	--	--	.60	<.100
27...	1000	83631	12	--	--	.74	<.100
NOV							
09...	1135	83620	6.9	10	.19	.70	.030
DEC							
01...	1200	83620	12	16	.52	.90	--
14...	1230	83620	6.4	6	.10	1.0	--
JAN							
04...	1155	83620	12	15	.49	1.5	--
24...	1400	83620	15	34	1.4	.83	--
24...	1405	83620	--	--	--	.83	--
FEB							
03...	0955	83620	93	873	219	1.1	--
04...	1010	83620	32	101	8.7	1.5	--
16...	0950	83620	9.9	11	.29	1.2	--
28...	1215	83620	8.2	13	.29	.53	--
MAR							
22...	1330	83620	13	32	1.1	.41	.010
APR							
10...	1300	83620	55	1200	178	.69	--
10...	1500	83620	42	1040	118	.74	--
10...	1700	83620	36	558	54	.66	--
14...	1235	83620	13	25	.88	.83	--
15...	1055	83620	35	436	41	.83	--
15...	1300	83620	67	1070	193	.73	--
15...	1315	83620	73	1160	229	.76	--
15...	1500	83620	82	1290	286	.55	--
15...	1700	83620	65	874	153	.62	--
15...	1900	83620	78	764	161	.76	--
15...	2100	83620	131	2610	923	.67	--
15...	2300	83620	127	1620	554	.82	--
16...	0100	83620	105	875	248	.94	--
16...	0300	83620	87	577	136	.99	--
16...	1150	83620	59	212	34	1.5	--
25...	1245	83620	89	360	87	1.5	--
26...	1130	83620	80	184	40	1.7	--
27...	1105	83620	70	180	34	1.6	--
MAY							
05...	1225	83620	36	45	4.4	1.2	--
18...	1330	83620	14	12	.45	1.2	--
JUN							
07...	1240	83620	9.0	17	.41	.90	--
21...	1250	83620	4.8	26	.34	1.2	--
21...	1255	83620	--	--	--	1.2	--
JUL							
12...	1150	83620	3.0	11	.09	1.4	.035

04240150 SPAFFORD CREEK AT SAWMILL ROAD, NEAR SPAFFORD, NY--Continued

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
AUG							
02...	1115	83620	3.6	18	.18	.87	--
23...	1100	83620	2.3	6	.04	.81	--
SEP							
08...	1130	83620	1.9	13	.07	.76	<.010
27...	1140	83620	2.1	6	.03	.65	--
OCT							
18...	1155	83620	2.2	3	.02	.49	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOSPHORUS, ORGANIC DISSOLVED (MG/L AS P)
OCT						
06...	.14	.075	.055	.015	.04	.02
27...	.39	.075	.060	.015	.05	.01
NOV						
09...	.44	.031	.016	<.010	.02	.00
DEC						
01...	.22	.040	.020	<.010	.01	.01
14...	.17	.040	.020	.010	.01	.01
JAN						
04...	--	.049	.010	.004	.01	.00
24...	--	.093	.009	.007	<.01	<.01
24...	--	.094	.006	.002	<.01	<.01
FEB						
03...	--	.840	.091	.016	.09	.00
04...	--	.232	.107	.010	.01	.10
16...	--	.043	.033	.003	.01	.02
28...	--	.036	.019	.006	.01	.00
MAR						
22...	--	.089	.020	.002	<.01	.01
APR						
10...	--	.650	.014	.002	<.01	<.01
10...	--	1.17	.018	.006	<.01	<.01
10...	--	.740	.017	.013	.01	.00
14...	--	.073	.021	.003	.01	.01
15...	--	.291	.008	.002	<.01	<.01
15...	--	.500	.002	.002	<.01	<.01
15...	--	.665	.001	.001	<.01	<.01
15...	--	.750	.002	.002	<.01	<.01
15...	--	.460	.016	.011	.02	.00
15...	--	.380	.032	.030	.03	.00
15...	--	1.40	.003	.001	<.01	<.01
15...	--	.780	.018	.009	.02	.00
16...	--	.455	.017	.007	.01	.00
16...	--	.345	.024	.015	.02	.00
16...	--	.184	.026	.020	.02	.00
25...	--	.268	.008	.008	<.01	--
26...	--	.029	.024	.011	.02	.00
27...	--	.162	.006	.003	<.01	--
MAY						
05...	--	.048	.017	.004	.01	.00
18...	--	.015	.015	.011	.01	.00
JUN						
07...	--	.034	.004	.004	<.01	--
21...	--	.083	.013	.002	.01	.00
21...	--	.078	.020	.001	.01	.01

04240150 SPAFFORD CREEK AT SAWMILL ROAD, NEAR SPAFFORD, NY--Continued

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOSPHORUS, ORGANIC DISSOLVED (MG/L AS P)
JUL						
12...	.45	.044	.024	.008	<.02	--
AUG						
02...	--	.095	.029	.018	.02	.00
23...	--	.037	.010	.010	<.01	--
SEP						
08...	1.9	.043	.012	<.010	.01	.00
27...	--	.033	.013	.008	.01	.00
OCT						
18...	.130	.033	.004	.001	<.01	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
FEB							
03...	0955	93	873	219	23	35	51
APR							
10...	1500	42	1040	118	27	42	60
15...	1315	73	1160	229	23	35	50
15...	1500	82	1290	286	23	35	51
15...	1900	78	764	161	22	32	45
15...	2100	131	2610	923	18	27	41

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
FEB						
03...	70	84	94	97	100	--
APR						
10...	80	90	96	99	100	--
15...	69	84	94	97	99	100
15...	70	85	94	97	99	100
15...	62	78	90	96	99	100
15...	57	74	87	94	99	100

04240150 SPAFFORD CREEK AT SAWMILL ROAD, NEAR SPAFFORD, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12	.10	93	3.9	16	.52	10	.32	20	3.9	12	.32
2	7	.05	14	.21	15	.49	9	.35	66	20	10	.26
3	5	.04	5	.06	14	.42	11	.36	866	228	9	.23
4	5	.04	171	19	15	.45	13	.39	155	12	7	.18
5	5	.04	101	6.0	14	.38	19	.41	40	2.1	5	.13
6	6	.05	30	.79	23	.69	16	.43	50	2.0	5	.12
7	6	.05	21	.46	13	.32	10	.27	40	1.4	5	.13
8	6	.06	15	.30	10	.23	21	.52	20	.59	6	.16
9	6	.05	10	.18	9	.20	15	.34	20	.54	5	.15
10	4	.03	8	.14	10	.11	15	.36	20	.49	6	.18
11	9	.08	8	.15	18	.27	19	.87	20	.43	10	.38
12	9	.09	14	.32	12	.14	20	.65	20	.40	8	.26
13	6	.05	13	.32	8	.10	19	.46	19	.35	5	.15
14	5	.04	8	.16	6	.11	21	.45	16	.28	5	.15
15	17	.22	8	.19	8	.17	20	.54	10	.24	6	.18
16	16	.19	8	.13	236	21	20	.50	11	.30	6	.16
17	16	.21	7	.12	65	1.3	19	.45	12	.32	5	.13
18	6	.06	7	.12	22	.29	17	.39	11	.36	5	.13
19	5	.04	7	.12	14	.23	15	.32	10	.27	6	.16
20	5	.04	6	.10	14	.28	16	.34	10	.27	12	.36
21	9	.09	19	.61	10	.24	14	.29	10	.30	25	1.4
22	6	.05	20	.74	9	.22	9	.19	9	.29	38	1.5
23	6	.05	11	.36	8	.20	11	.30	10	.32	19	.62
24	6	.05	13	.42	92	5.1	24	.97	9	.27	18	.58
25	6	.05	13	.29	181	14	27	1.2	9	.24	18	.58
26	6	.05	9	.24	95	5.1	23	.93	8	.21	18	.53
27	7	.06	7	.15	17	.64	23	.62	10	.26	40	1.3
28	7	.05	11	.17	178	19	22	.53	12	.27	22	1.0
29	7	.06	18	.44	65	3.2	21	.68	---	---	19	.77
30	6	.05	28	1.3	30	1.3	32	1.6	---	---	17	.55
31	5	.05	---	---	12	.45	26	1.5	---	---	14	.42
TOTAL	---	2.14	---	37.49	---	77.15	---	17.53	---	276.40	---	13.17

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14	.38	286	50	20	.65	23	.23	13	.18	9	.05
2	12	.32	139	24	9	.22	22	.21	18	.24	9	.04
3	12	.36	322	57	8	.18	19	.17	10	.06	9	.04
4	10	.27	179	26	8	.19	17	.15	10	.06	8	.04
5	10	.26	50	4.9	8	.17	16	.14	133	7.3	46	.58
6	8	.20	28	2.2	24	1.3	16	.14	239	4.4	116	1.4
7	10	.27	22	1.5	22	.60	15	.13	30	.20	15	.09
8	11	.33	207	35	11	.20	14	.11	18	.11	13	.07
9	9	.23	235	27	10	.17	14	.11	19	.16	12	.06
10	420	44	65	4.7	10	.16	13	.10	12	.07	20	.18
11	145	6.7	42	2.8	11	.18	13	.10	13	.10	12	.07
12	50	2.0	32	2.0	12	.18	11	.09	14	.12	10	.05
13	40	1.5	27	1.5	11	.16	10	.07	9	.07	10	.05
14	25	.88	23	1.1	10	.14	10	.06	7	.04	10	.05
15	774	213	21	1.0	10	.14	10	.06	6	.03	9	.05
16	503	103	23	1.1	9	.12	9	.06	6	.03	8	.04
17	548	81	17	.69	124	11	8	.05	5	.03	7	.04
18	190	17	12	.77	347	10	8	.05	7	.05	7	.04
19	40	2.9	14	.53	25	.33	8	.04	8	.05	7	.04
20	40	2.7	21	1.1	21	.26	9	.05	9	.05	7	.04
21	40	2.3	18	.63	25	.31	9	.06	10	.05	234	15
22	498	59	15	.53	25	.29	9	.08	9	.05	240	3.4
23	835	181	17	.69	25	.27	8	.06	6	.04	33	.21
24	1370	421	18	.63	25	.26	28	.42	6	.03	8	.05
25	550	142	14	.42	29	.29	14	.11	7	.04	6	.04
26	1000	320	24	1.0	28	.28	10	.07	7	.04	6	.04
27	402	89	15	.45	26	.26	10	.06	7	.04	6	.04
28	28	4.8	10	.27	135	6.6	10	.06	8	.04	5	.03
29	20	2.5	9	.24	40	.52	8	.06	9	.05	3	.02
30	805	237	10	.30	24	.25	10	.09	9	.05	1	.01
31	---	---	11	.33	---	---	6	.05	10	.06	---	---
TOTAL	---	1935.90	---	250.38	---	35.68	---	3.24	---	13.84	---	21.86

0424015305 RICE BROOK AT RICE GROVE, NY

LOCATION.--Lat 42°51'07", Long 76°15'33", Onondaga County, Hydrologic Unit 04140201, on right bank just upstream from culvert on Otisco Valley Road, 0.1 mi upstream rom mouth at Rice Grove, and 0.2 mi northwest of intersection with Otisco Road. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2.44 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97 ft^3/s June 29, 1982, gage height, 2.69 ft; flood of Oct. 28, 1981 was considerably higher, discharge not determined; no flow many days in August and September 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s Apr. 24, gage height, 2.65 ft; no flow many days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	1.9	3.1	1.4	5.0	3.4	2.0	18	3.1	.78	.11	.00
2	.50	1.9	2.3	1.6	4.4	3.2	2.3	18	1.9	.78	.16	.00
3	.50	.78	2.1	1.6	28	3.0	2.8	13	1.6	.54	.16	.00
4	.39	12	2.3	1.2	10	2.8	2.1	11	1.8	.40	.11	.00
5	.39	5.2	2.1	2.0	7.0	2.6	1.9	7.2	1.8	.33	.16	.22
6	.39	1.6	2.3	4.0	5.0	2.6	1.8	5.2	1.9	.33	.11	.22
7	.39	1.3	1.8	1.3	3.5	2.8	2.1	4.8	2.3	.26	.07	.04
8	.63	1.1	1.4	1.0	2.6	2.6	2.6	7.8	1.4	.21	.04	.00
9	.50	.96	1.8	1.0	2.0	2.8	1.8	11	1.2	.16	.04	.00
10	.44	.87	1.2	1.1	1.6	3.4	6.1	5.2	1.1	.16	.02	.07
11	.44	.96	1.6	4.0	1.3	4.8	4.8	4.8	.96	.11	.11	.02
12	.56	2.8	2.4	2.3	1.1	3.7	4.0	4.8	.96	.11	.21	.00
13	.50	4.0	1.8	2.0	1.0	3.4	3.4	3.1	.78	.07	.26	.00
14	.56	1.6	2.0	1.9	.90	3.7	3.1	3.1	.78	.04	.16	.00
15	.87	1.3	2.6	1.8	2.0	3.1	16	3.4	.70	.04	.11	.00
16	1.1	1.2	4.8	1.7	3.0	2.8	22	4.4	.78	.02	.07	.00
17	1.9	1.1	3.0	1.6	4.6	2.3	14	2.8	1.4	.02	.04	.00
18	.87	.96	2.6	1.6	4.0	2.1	9.1	2.3	1.9	.02	.11	.00
19	.63	.87	2.2	1.6	2.7	2.6	6.1	2.8	1.1	.02	.07	.00
20	.63	.96	2.3	1.5	4.2	2.8	7.8	4.0	.87	.02	.04	.04
21	.78	3.1	2.4	1.5	6.0	4.0	6.6	2.6	.87	.04	.00	.26
22	.63	5.6	2.5	1.5	7.0	3.6	9.8	2.3	.87	.11	.00	.70
23	.44	5.6	2.6	2.2	6.4	2.6	22	2.3	.54	.04	.04	.21
24	.39	4.0	3.6	3.2	6.0	2.0	44	1.9	.40	.16	.03	.11
25	.35	2.8	9.8	2.5	3.6	1.4	31	1.6	.40	.07	.00	.07
26	.35	2.3	7.2	2.9	2.4	1.4	42	2.8	.54	.04	.00	.04
27	.35	1.9	4.0	3.6	2.0	1.7	26	2.3	.54	.02	.00	.02
28	.35	1.8	11	2.9	2.6	2.4	18	1.6	2.3	.01	.00	.02
29	.35	7.2	4.0	3.1	---	2.8	14	1.6	1.4	.01	.00	.00
30	.35	5.6	3.1	3.6	---	1.8	29	2.8	.87	.07	.00	.00
31	.39	---	1.8	6.0	---	2.0	---	2.8	---	.07	.00	---
TOTAL	17.48	83.26	97.7	69.2	129.90	86.2	358.2	161.3	37.06	5.06	2.23	2.04
MEAN	.56	2.78	3.15	2.23	4.64	2.78	11.9	5.20	1.24	.16	.072	.068
MAX	1.9	12	11	6.0	28	4.8	44	18	3.1	.78	.26	.70
MIN	.35	.78	1.2	1.0	.90	1.4	1.8	1.6	.40	.01	.00	.00
CFSM	.23	1.14	1.29	.91	1.90	1.14	4.88	2.13	.51	.07	.03	.03
IN.	.27	1.27	1.49	1.05	1.98	1.31	5.46	2.46	.56	.08	.03	.03

WTR YR 1983 TOTAL 1049.63 MEAN 2.88 MAX 44 MIN .00 CFSM 1.18 IN 16.00

0424015305 RICE BROOK AT RICE GROVE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (e).
SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended-sediment analyses done by U.S. Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 492 mg/L June 29,1983; minimum daily mean, 0 mg/L many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 97 tons June 29, 1983; minimum daily, 0.00 tons many days.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 302 mg/L Apr. 24; minimum daily mean 0 mg/L, on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean 54 tons Apr. 24; minimum daily mean 0.00 tons many days.

WATER-QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
OCT							
06...	1100	83631	.50	1	.00	.31	<.100
27...	0925	83631	.34	--	--	.30	.160
NOV							
09...	1050	83620	.96	2	.00	.90	--
DEC							
01...	1120	83620	3.1	8	.07	1.2	--
14...	1130	83620	2.0	3	.02	1.2	--
JAN							
04...	1120	83620	1.2	1	.00	3.9	--
24...	1315	83620	4.2	4	.05	2.1	--
24...	1320	83620	--	--	--	2.1	--
FEB							
03...	1305	83620	28	74	5.6	2.3	--
04...	1000	83620	8.4	9	.20	4.0	--
15...	1340	83620	2.4	3	.02	2.9	--
28...	1120	83620	2.6	4	.03	1.4	--
MAR							
22...	1240	83620	3.4	2	.02	1.1	--
APR							
14...	1145	83620	2.8	10	.08	2.0	--
15...	1035	83620	14	98	3.7	2.2	--
15...	1255	83620	19	--	--	2.1	--
16...	1100	83620	20	43	2.3	2.9	--
25...	1140	83620	28	46	3.5	3.4	--
26...	1105	83620	28	39	2.9	2.9	--
27...	1045	83620	24	28	1.8	3.3	--
MAY							
05...	1145	83620	7.2	9	.18	2.5	--
18...	1240	83620	2.4	3	.02	1.6	--
JUN							
07...	1205	83620	2.1	6	.03	.82	--
21...	1210	83620	.87	3	.00	--	--
21...	1215	83620	--	--	--	.81	--
JUL							
12...	1110	83620	.11	7	.00	.89	--
AUG							
02...	1145	83620	.11	2	.00	.73	--
23...	1035	83620	.04	2	.00	.54	--
SEP							
27...	1110	83620	.02	2	.00	.22	--
OCT							
18	1110	83620	.04	0	.00	.85	--

0424015305 RICE BROOK AT RICE GROVE, NY--Continued

WATER-QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS-PHORUS, ORGANIC DIS-SOLVED (MG/L AS P)
OCT						
06...	.18	.055	.050	.015	.05	.00
27...	.61	.068	.050	.015	.05	.00
NOV						
09...	.53	.020	.020	.010	.01	.01
DEC						
01...	.28	.050	.030	.010	.02	.01
14...	.17	.030	.030	<.010	<.01	.02
JAN						
04...	--	.050	.008	.005	<.01	<.01
24...	--	.160	.085	.011	.07	.01
24...	--	.050	.014	.003	.01	.00
FEB						
03...	--	.219	.055	.028	.05	.00
04...	--	.033	.020	.008	.01	.01
15...	--	.025	.009	.008	.01	.00
28...	--	.023	.017	.003	.01	.00
MAR						
22...	--	.027	.013	.010	<.01	.00
APR						
14...	--	.037	.032	.029	.03	.00
15...	--	.187	.005	.005	<.01	<.01
15...	--	.102	.032	.014	.02	.01
16...	--	.115	.031	.029	.03	.00
25...	--	.081	.027	.011	.02	.01
26...	--	.122	.047	.035	.04	.01
27...	--	.059	.031	.022	.03	.00
MAY						
05...	--	.044	.029	.008	.03	.00
18...	--	.020	.012	.005	<.01	--
JUN						
07...	--	.017	.005	.002	<.01	--
21...	--	.023	.006	.006	<.01	--
21...	--	.015	.006	.005	<.01	--
JUL						
12...	--	.028	.026	.020	.02	.00
AUG						
02...	--	.020	.020	.015	.01	.01
23...	--	.051	.027	.005	.01	.02
SEP						
27...	--	.063	.030	.024	.03	.00
OCT						
18...	--	.140	.048	.023	.002	<.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
APR							
15...	1035	14	98	3.7	2	19	42

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
APR						
15...	66	80	89	95	99	100

0424015305 RICE BROOK AT RICE GROVE, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1	.00	20	.11	8	.07	14	.05	8	.11	4	.04
2	1	.00	17	.12	7	.04	20	.09	6	.07	4	.03
3	1	.00	6	.01	6	.03	12	.05	46	3.5	5	.04
4	1	.00	54	2.3	6	.04	6	.02	17	.46	4	.03
5	1	.00	16	.40	29	.16	5	.03	6	.11	8	.06
6	1	.00	4	.02	12	.07	5	.05	4	.05	8	.06
7	1	.00	3	.01	10	.05	5	.02	4	.04	6	.05
8	3	.00	3	.00	9	.03	20	.05	4	.03	4	.03
9	2	.00	2	.00	9	.04	12	.03	4	.02	5	.04
10	2	.00	2	.00	8	.03	13	.04	3	.01	5	.05
11	2	.00	2	.00	24	.10	17	.18	3	.01	7	.09
12	2	.00	17	.51	16	.10	10	.06	2	.00	5	.05
13	2	.00	18	.34	5	.02	10	.05	2	.00	3	.03
14	3	.00	4	.02	3	.02	10	.05	2	.00	2	.02
15	4	.00	4	.01	3	.02	26	.13	3	.02	2	.02
16	6	.02	3	.00	26	.44	10	.05	3	.02	2	.02
17	9	.07	3	.00	9	.07	8	.03	3	.04	1	.00
18	2	.00	2	.00	6	.04	8	.03	3	.03	1	.00
19	2	.00	2	.00	26	.15	7	.03	3	.02	0	.00
20	2	.00	2	.00	8	.05	7	.03	3	.03	0	.00
21	3	.00	7	.06	6	.04	7	.03	3	.05	5	.05
22	3	.00	16	.24	5	.03	6	.02	4	.08	3	.03
23	3	.00	20	.30	4	.03	5	.03	5	.09	2	.01
24	3	.00	17	.18	16	.16	4	.03	8	.13	2	.01
25	3	.00	15	.11	29	.88	4	.03	8	.08	2	.00
26	3	.00	11	.07	15	.42	4	.03	7	.05	2	.00
27	3	.00	8	.04	4	.04	4	.04	6	.03	11	.05
28	3	.00	9	.04	22	.82	4	.03	4	.03	16	.10
29	3	.00	16	.31	7	.08	4	.03	---	---	17	.13
30	3	.00	12	.18	7	.06	21	.20	---	---	14	.07
31	2	.00	---	---	12	.06	10	.16	---	---	11	.06
TOTAL	---	0.09	---	5.38	---	4.19	---	1.70	---	5.11	---	1.17

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6	.03	19	.92	6	.05	7	.01	3	.00	0	.00
2	2	.01	14	.68	6	.03	62	.13	2	.00	0	.00
3	0	.00	11	.39	6	.03	5	.00	3	.00	0	.00
4	0	.00	10	.30	5	.02	5	.00	3	.00	0	.00
5	1	.00	9	.17	5	.02	4	.00	3	.00	6	.00
6	0	.00	8	.11	7	.04	4	.00	3	.00	4	.00
7	1	.00	6	.08	7	.04	4	.00	3	.00	0	.00
8	1	.00	30	1.6	5	.02	2	.00	3	.00	0	.00
9	1	.00	34	1.0	5	.02	2	.00	3	.00	6	.00
10	47	1.4	19	.27	5	.01	1	.00	4	.00	10	.00
11	11	.14	16	.21	4	.01	3	.00	6	.00	0	.00
12	10	.11	14	.18	4	.01	6	.00	6	.00	0	.00
13	10	.09	12	.10	4	.00	6	.00	4	.00	0	.00
14	10	.08	10	.08	4	.00	5	.00	3	.00	0	.00
15	90	6.5	9	.08	4	.00	5	.00	3	.00	0	.00
16	54	3.7	8	.10	5	.01	4	.00	3	.00	0	.00
17	19	.72	6	.05	9	.03	4	.00	3	.00	0	.00
18	14	.34	4	.02	14	.07	4	.00	3	.00	0	.00
19	12	.20	4	.03	9	.03	4	.00	3	.00	0	.00
20	12	.25	6	.06	5	.01	3	.00	3	.00	7	.00
21	8	.14	6	.04	3	.00	4	.00	3	.00	11	.00
22	8	.21	6	.04	3	.00	6	.00	3	.00	6	.01
23	95	7.9	6	.04	3	.00	4	.00	2	.00	2	.00
24	302	54	6	.03	4	.00	8	.00	2	.00	1	.00
25	62	6.4	5	.02	4	.00	6	.00	1	.00	1	.00
26	64	8.8	8	.06	5	.00	6	.00	0	.00	1	.00
27	31	2.2	4	.02	5	.00	6	.00	0	.00	0	.00
28	24	1.2	1	.00	15	.12	5	.00	0	.00	0	.00
29	22	.83	1	.00	13	.05	5	.00	0	.00	0	.00
30	62	6.0	4	.03	10	.02	6	.00	0	.00	0	.00
31	---	---	3	.02	---	---	5	.00	0	.00	---	---
TOTAL	---	101.25	---	6.73	---	0.64	---	0.14	---	0.00	---	0.01

0424016205 WILLOW BROOK AT LADER POINT, NY

LOCATION.--Lat 42°52'31", Long 76°18'21", Onondaga County, Hydrologic Unit 04140201, on left bank 0.1 mi off of unnamed camp access road, 0.1 mi upstream from mouth at Lader Point, and 0.5 mi south of access road intersection with State Highway 174. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3.73 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1981 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 344 ft^3/s Apr. 26, 1983, gage height 3.64 ft; maximum gage height, 4.78 ft Dec. 23, 1981 (ice jam); flood of Oct. 28, 1981 was considerably higher, discharge not determined; no flow many days in 1982 and 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 344 ft^3/s Apr. 26, gage height, 3.64 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.95	5.1	5.5	12	4.5	5.1	22	2.8	.76	.02	.00
2	.00	.95	3.9	7.0	20	4.2	3.9	20	1.9	.68	.00	.00
3	.00	.39	3.4	5.1	55	4.2	3.9	14	1.4	.48	.00	.00
4	.00	9.0	3.1	3.6	17	3.9	3.6	13	1.4	.37	.00	.00
5	.00	6.3	3.1	3.9	9.8	3.9	3.4	9.4	1.3	.33	.01	.12
6	.00	1.4	4.8	6.3	5.8	3.6	2.9	7.1	1.4	.27	.00	.00
7	.00	.74	3.6	4.5	4.4	3.6	2.9	6.3	1.6	.22	.00	.00
8	.00	.65	3.4	2.7	3.5	3.6	3.1	13	1.0	.18	.00	.00
9	.00	.51	4.0	2.4	2.6	3.6	2.9	11	.85	.15	.01	.00
10	.00	.51	2.0	2.9	2.1	3.9	7.4	7.1	.68	.10	.00	.00
11	.00	.58	2.4	7.4	1.8	4.8	5.8	6.0	.68	.06	.15	.00
12	.00	2.4	2.6	7.0	1.6	4.5	4.5	5.5	.54	.04	.01	.00
13	.00	3.6	2.4	5.0	1.5	4.2	3.9	4.8	.42	.01	.01	.00
14	.00	2.1	3.6	4.5	1.4	4.6	3.6	4.1	.37	.00	.00	.00
15	.00	1.5	10	4.0	1.4	4.0	41	4.1	.33	.00	.00	.00
16	.00	1.4	26	3.9	2.4	3.5	42	4.8	2.4	.00	.00	.00
17	.00	.95	14	3.7	6.6	3.2	20	3.9	19	.00	.00	.00
18	.00	.74	7.0	3.5	6.6	2.8	13	3.5	5.0	.00	.01	.00
19	.00	.65	6.0	3.4	3.4	3.0	7.0	3.7	2.1	.00	.00	.00
20	.00	.58	6.0	3.3	5.8	4.0	8.0	4.3	1.3	.00	.00	.00
21	.00	1.7	6.2	3.1	10	5.4	7.0	3.5	1.1	.03	.00	.00
22	.00	5.5	6.2	2.9	13	7.5	12	3.2	.76	.01	.00	.00
23	.00	11	6.4	3.2	13	5.8	30	3.2	.60	.00	.00	.00
24	.00	4.8	8.0	3.8	11	4.4	90	2.8	.54	.01	.00	.00
25	.00	3.9	20	3.4	10	3.8	65	2.3	.48	.00	.00	.00
26	.00	3.1	20	3.9	9.4	3.6	112	3.0	.48	.00	.00	.00
27	.00	2.0	13	4.8	7.4	4.6	31	2.5	.42	.00	.00	.00
28	.00	2.0	23	4.2	3.2	6.7	17	2.1	2.5	.00	.00	.00
29	.00	4.8	12	4.8	---	7.8	13	1.8	1.6	.00	.00	.00
30	.00	9.8	9.4	7.4	---	5.8	51	2.9	.85	.01	.00	.00
31	.00	---	6.7	11	---	5.5	---	2.8	---	.57	.00	---
TOTAL	.00	84.50	247.3	142.1	241.7	138.5	615.9	197.7	55.80	4.28	.22	.12
MEAN	.000	2.82	7.98	4.58	8.63	4.47	20.5	6.38	1.86	.14	.007	.004
MAX	.00	11	26	11	55	7.8	112	22	19	.76	.15	.12
MIN	.00	.39	2.0	2.4	1.4	2.8	2.9	1.8	.33	.00	.00	.00
CFSM	.000	.76	2.14	1.23	2.31	1.20	5.50	1.71	.50	.04	.002	.001
IN.	.00	.84	2.47	1.42	2.41	1.38	6.14	1.97	.56	.04	.00	.00

CAL YR 1982 TOTAL 1201.33 MEAN 3.29 MAX 60 MIN .00 CFSM .88 IN 11.98
WTR YR 1983 TOTAL 1728.12 MEAN 4.73 MAX 112 MIN .00 CFSM 1.27 IN 17.23

04240162O5 WILLOW BROOK AT LADER POINT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (e).
SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended-sediment analyses done by the U.S.Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 330 mg/L Apr. 15,1983; minimum daily mean 0 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 101 tons Apr. 26,1983; minimum daily, 0.00 tons many days.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 330 mg/L Apr. 15; minimum daily mean 0 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 101 tons on Apr. 26; minimum daily 0.00 tons on many days.

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV							
09...	0925	83620	.51	3	.00	1.1	.015
DEC							
01...	0915	83620	5.1	9	.12	1.3	--
14...	0945	83620	3.6	2	.02	1.3	--
JAN							
04...	0930	83620	3.6	7	.07	--	.112
24...	1030	83620	3.7	--	--	4.4	--
24...	1035	83620	--	--	--	5.3	--
FEB							
03...	1100	83620	44	145	17	5.2	--
04...	0915	83620	19	13	.67	5.3	--
15...	1125	83620	1.8	4	.02	4.6	--
28...	0930	83620	3.6	4	.04	4.1	--
MAR							
22...	1035	83620	5.8	3	.05	1.6	--
APR							
14...	0930	83620	3.6	2	.02	3.4	--
15...	0935	83620	32	1150	99	2.9	--
15...	1200	83620	43	920	107	2.6	--
16...	0905	83620	36	57	5.5	5.9	--
26...	0940	83620	45	18	2.2	4.6	--
27...	0840	83620	28	16	1.2	4.7	--
MAY							
05...	0930	83620	9.4	3	.08	4.3	--
18...	1015	83620	3.5	6	.06	3.8	--
JUN							
07...	0930	83620	1.6	27	.12	1.8	.015
21...	1045	83620	1.2	12	.04	--	--
21...	1050	83620	--	--	--	--	--

0424016205 WILLOW BROOK AT LADER POINT, NY--Continued

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)
NOV						
09...	1.10	.050	.040	.030	.03	.01
DEC						
01...	.22	.050	.020	.020	.02	.00
14...	.22	.040	.030	.020	<.01	.01
JAN						
04...	--	.042	.023	.015	<.02	--
24...	--	.058	.015	.011	.01	.00
24...	--	.031	.015	.011	.01	.00
FEB						
03...	--	.365	.056	.022	.06	.00
04...	--	.030	.010	.007	.01	.00
15...	--	.026	.015	.007	.01	.00
28...	--	.036	.020	.006	<.01	.01
MAR						
22...	--	.037	.015	.001	.01	.00
APR						
14...	--	.025	.009	.002	<.01	<.01
15...	--	[illegible]	.039	.032	.04	.00
15...	--	.530	.051	.045	.05	.00
16...	--	.213	.034	.024	.03	.00
26...	--	.082	.050	.032	.04	.02
27...	--	.067	.028	.022	.03	.00
MAY						
05...	--	.039	.027	.006	.02	.00
18...	--	.015	.012	.003	<.01	--
JUN						
07...	.22	.022	.011	<.010	<.01	<.01
21...	--	.042	.025	.006	.02	.01
21...	--	.042	.030	.012	.02	.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
APR							
15...	0935	32	1150	99	31	50	66

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
APR						
15...	82	92	96	98	99	100

0424016205 WILLOW BROOK AT LADER POINT, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1	.00	20	.11	8	.07	14	.05	8	.11	4	.04
2	1	.00	17	.12	7	.04	20	.09	6	.07	4	.03
3	1	.00	6	.01	6	.03	12	.05	46	3.5	5	.04
4	1	.00	54	2.3	6	.04	6	.02	17	.46	4	.03
5	1	.00	16	.40	29	.16	5	.03	6	.11	8	.06
6	1	.00	4	.02	12	.07	5	.05	4	.05	8	.06
7	1	.00	3	.01	10	.05	5	.02	4	.04	6	.05
8	3	.00	3	.00	9	.03	20	.05	4	.03	4	.03
9	2	.00	2	.00	9	.04	12	.03	4	.02	5	.04
10	2	.00	2	.00	8	.03	13	.04	3	.01	5	.05
11	2	.00	2	.00	24	.10	17	.18	3	.01	7	.09
12	2	.00	17	.51	16	.10	10	.06	2	.00	5	.05
13	2	.00	18	.34	5	.02	10	.05	2	.00	3	.03
14	3	.00	4	.02	3	.02	10	.05	2	.00	2	.02
15	4	.00	4	.01	3	.02	26	.13	3	.02	2	.02
16	6	.02	3	.00	26	.44	10	.05	3	.02	2	.02
17	9	.07	3	.00	9	.07	8	.03	3	.04	1	.00
18	2	.00	2	.00	6	.04	8	.03	3	.03	1	.00
19	2	.00	2	.00	26	.15	7	.03	3	.02	0	.00
20	2	.00	2	.00	8	.05	7	.03	3	.03	0	.00
21	3	.00	7	.06	6	.04	7	.03	3	.05	5	.05
22	3	.00	16	.24	5	.03	6	.02	4	.08	3	.03
23	3	.00	20	.30	4	.03	5	.03	5	.09	2	.01
24	3	.00	17	.18	16	.16	4	.03	8	.13	2	.01
25	3	.00	15	.11	29	.88	4	.03	8	.08	2	.00
26	3	.00	11	.07	15	.42	4	.03	7	.05	2	.00
27	3	.00	8	.04	4	.04	4	.04	6	.03	11	.05
28	3	.00	9	.04	22	.82	4	.03	4	.03	16	.10
29	3	.00	16	.31	7	.08	4	.03	---	---	17	.13
30	3	.00	12	.18	7	.06	21	.20	---	---	14	.07
31	2	.00	---	---	12	.06	10	.16	---	---	11	.06
TOTAL	---	0.09	---	5.38	---	4.19	---	1.70	---	5.11	---	1.17

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10	.14	23	1.4	7	.05	5	.01	0	.00	0	.00
2	10	.11	14	.76	7	.04	3	.00	0	.00	0	.00
3	10	.11	7	.26	8	.03	2	.00	0	.00	0	.00
4	10	.10	4	.14	8	.03	2	.00	0	.00	0	.00
5	10	.09	3	.08	8	.03	2	.00	0	.00	0	.00
6	9	.07	2	.04	11	.04	1	.00	0	.00	0	.00
7	8	.06	2	.03	14	.06	1	.00	0	.00	0	.00
8	7	.06	72	5.0	11	.03	1	.00	0	.00	0	.00
9	6	.05	40	1.2	8	.02	1	.00	0	.00	0	.00
10	112	5.7	13	.25	6	.01	1	.00	0	.00	0	.00
11	10	.16	6	.10	4	.00	1	.00	0	.00	0	.00
12	4	.05	3	.04	3	.00	1	.00	0	.00	0	.00
13	2	.02	3	.04	3	.00	0	.00	0	.00	0	.00
14	2	.02	2	.02	3	.00	0	.00	0	.00	0	.00
15	330	61	2	.02	3	.00	0	.00	0	.00	0	.00
16	70	11	5	.06	128	3.9	0	.00	0	.00	0	.00
17	18	.97	4	.04	228	31	0	.00	0	.00	0	.00
18	16	.56	6	.06	40	.54	0	.00	0	.00	0	.00
19	144	2.7	6	.06	5	.03	0	.00	0	.00	0	.00
20	221	4.8	5	.06	3	.01	0	.00	0	.00	0	.00
21	34	.64	4	.04	12	.04	0	.00	0	.00	0	.00
22	16	.52	2	.02	11	.02	0	.00	0	.00	0	.00
23	110	11	1	.00	11	.02	0	.00	0	.00	0	.00
24	110	27	2	.02	11	.02	0	.00	0	.00	0	.00
25	25	4.4	2	.01	11	.01	0	.00	0	.00	0	.00
26	161	101	6	.05	11	.01	0	.00	0	.00	0	.00
27	18	1.5	5	.03	9	.01	0	.00	0	.00	0	.00
28	10	.46	4	.02	27	.39	0	.00	0	.00	0	.00
29	8	.28	5	.02	15	.06	0	.00	0	.00	0	.00
30	226	53	8	.06	8	.02	0	.00	0	.00	0	.00
31	---	---	7	.05	---	---	0	.00	0	.00	---	---
TOTAL	---	287.57	---	9.98	---	36.42	---	0.01	---	0.00	---	0.00

0424016825 AMBER BROOK AT AMBER, NY

LOCATION.--Lat 42°53'22", Long 76°17'51", Onondaga County, Hydrologic Unit 04140201, on left bank just upstream from culvert on Otisco Valley Road at Amber, 0.1 mi upstream from mouth, and 0.4 mi north of intersection with Amber Road. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3.69 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1982 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 260 ft^3/s Apr. 26, 1983, gage height, 3.47 ft; flood of Oct. 28, 1981 was considerably higher, discharge not determined; minimum daily discharge, 0.14 ft^3/s Aug. 26-30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft^3/s Apr. 26, gage height, 3.47 ft; minimum daily discharge, 0.14 ft^3/s Aug. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	2.2	5.2	6.0	7.0	4.2	5.2	25	4.9	1.2	.89	.20
2	.62	2.6	4.2	5.7	6.6	4.0	4.9	24	3.3	1.1	.68	.18
3	.44	1.6	4.0	4.9	30	4.0	5.7	18	2.9	1.0	.44	.16
4	.44	11	4.2	4.0	12	4.0	5.2	15	3.3	1.0	.40	.16
5	.44	8.4	4.0	4.4	9.0	3.5	4.9	11	2.7	.97	.62	.29
6	.44	4.0	4.9	5.0	8.0	3.5	4.7	10	3.5	.89	.81	.36
7	.36	2.4	4.0	4.2	7.2	3.5	5.2	8.8	3.5	.89	.44	.23
8	.62	1.8	3.3	3.4	6.6	3.7	5.7	11	2.6	.74	.32	.20
9	.62	1.7	3.3	2.8	6.2	3.7	4.7	12	2.4	.74	.29	.16
10	.50	1.6	2.4	3.0	5.8	4.0	10	9.4	2.2	.68	.26	.26
11	.56	1.7	2.6	7.1	5.2	5.4	8.4	8.4	2.1	.62	.40	.23
12	.68	4.6	2.8	5.2	4.6	4.7	7.4	7.8	2.1	.56	.81	.20
13	.56	6.5	2.3	5.0	4.4	4.4	6.0	7.1	1.9	.50	.62	.18
14	.56	3.3	3.4	5.0	4.2	4.4	5.2	6.5	1.9	.56	.36	.18
15	.97	2.6	9.0	4.8	4.8	4.0	18	6.8	1.8	.50	.32	.16
16	1.0	2.2	14	4.8	5.4	3.7	24	7.4	4.2	.56	.29	.16
17	1.7	1.9	6.2	4.6	6.6	3.5	18	6.0	5.9	.50	.23	.16
18	.89	1.8	5.0	4.6	5.4	3.3	14	5.4	4.9	.56	.32	.16
19	.62	1.6	4.6	4.4	5.0	3.7	11	5.7	2.2	.56	.29	.16
20	.56	1.6	4.8	4.2	5.8	4.4	12	6.5	1.9	.50	.20	1.5
21	.68	4.7	4.8	4.2	6.8	6.5	11	4.7	1.7	.50	.18	2.5
22	.62	6.8	5.0	4.0	8.1	6.8	12	4.4	1.7	.50	.20	3.0
23	.56	7.8	5.0	5.2	8.4	5.0	22	4.9	1.4	.44	.20	1.2
24	.50	6.0	6.0	7.0	7.1	3.8	50	4.2	1.4	.50	.18	.60
25	.50	4.7	10	6.8	6.5	3.2	58	3.5	1.3	.50	.16	.42
26	.50	3.5	11	6.6	4.4	3.2	92	5.2	1.2	.50	.14	.40
27	.50	2.7	7.8	5.6	3.6	4.0	41	3.5	1.2	.50	.14	.29
28	.50	2.7	15	5.8	4.0	7.4	30	3.3	3.3	.50	.14	.23
29	.50	7.8	9.4	5.8	---	7.0	24	3.3	1.7	.50	.14	.23
30	.44	7.4	7.4	7.0	---	7.4	48	4.7	1.3	.68	.14	.23
31	.44	---	6.0	8.0	---	6.8	---	4.9	---	.97	.20	---
TOTAL	19.00	119.2	181.6	159.1	198.7	140.7	568.2	258.4	76.4	20.72	10.81	14.39
MEAN	.61	3.97	5.86	5.13	7.10	4.54	18.9	8.34	2.55	.67	.35	.48
MAX	1.7	11	15	8.0	30	7.4	92	25	5.9	1.2	.89	3.0
MIN	.36	1.6	2.3	2.8	3.6	3.2	4.7	3.3	1.2	.44	.14	.16
CFSM	.17	1.08	1.59	1.39	1.92	1.23	5.12	2.26	.69	.18	.10	.13
IN.	.19	1.20	1.83	1.60	2.00	1.42	5.73	2.60	.77	.21	.11	.15

WTR YR 1983 TOTAL 1767.22 MEAN 4.84 MAX 92 MIN .14 CFSM 1.31 IN 17.81

0424016825 AMBER BROOK AT AMBER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
  NUTRIENT DATA: 1982-83 (e).
  SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
  SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga County Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended sediment analyses done by the U.S. Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
  SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 400 mg/L June 29, 1982; minimum daily mean 0 mg/L on Oct. 1-4, 1982.
  SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 62 tons on Apr. 26, 1983; minimum daily, 0.00 tons on many days.

EXTREMES FOR CURRENT YEAR.--
  SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 222 mg/L Apr. 24; minimum daily mean 0 mg/L on Oct. 1-4.
  SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 62 tons on Apr. 26; minimum daily 0.00 tons many days.

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
OCT							
06...	1015	83631	.42	15	.02	.34	<.100
27...	0850	83620	.52	9	.01	.44	--
NOV							
09...	1035	83620	1.7	3	.01	.50	--
DEC							
01...	1045	83620	5.2	6	.08	1.0	--
14...	1110	83620	3.3	2	.02	1.1	--
JAN							
04...	1050	83620	4.0	1	.01	2.2	--
24...	1225	83620	6.7	11	.20	1.4	--
24...	1230	83620	--	--	--	1.3	--
FEB							
03...	1230	83620	31	62	5.2	1.6	--
04...	0945	83620	13	19	.67	2.1	--
15...	1300	83620	4.8	4	.05	2.1	.150
28...	1050	83620	4.0	0	.00	1.1	--
MAR							
22...	1205	83620	6.5	4	.07	.70	--
APR							
14...	1110	83620	5.2	8	.11	.88	--
15...	1020	83620	13	96	3.4	1.7	--
15...	1240	83620	21	--	--	1.2	--
16...	1010	83620	22	38	2.3	2.1	--
25...	1050	83620	42	66	7.5	2.1	--
26...	1045	83620	37	27	2.7	2.0	--
27...	0945	83620	30	31	2.5	2.1	--
MAY							
05...	1050	83620	12	12	.39	1.5	<.010
18...	1200	83620	5.4	10	.15	1.5	--
JUN							
07...	1135	83620	3.7	5	.05	.80	--
21...	1145	83620	1.8	17	.08	.87	--
21...	1150	83620	--	--	--	.89	--
JUL							
12...	1040	83620	.56	5	.00	1.0	--
AUG							
02...	1220	83620	.74	3	.00	.76	--
23...	1110	83620	.26	4	.00	.64	--
SEP							
08...	1030	83620	.20	2	.00	.48	--
27...	1055	83620	.29	2	.00	.44	--
OCT							
18...	1040	83620	.36	2	.00	.30	--

0424016825 AMBER BROOK AT AMBER, NY--Continued

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOSPHORUS, ORGANIC DISSOLVED (MG/L AS P)
OCT						
06...	.39	.036	<.029	<.01	<.01	--
27...	.46	.075	.050	.020	.05	.00
NOV						
09...	.32	.020	.010	<.010	<.01	.00
DEC						
01...	.19	.020	.020	<.010	.02	.00
14...	.10	.020	.020	<.010	<.01	.01
JAN						
04...	--	.025	.002	.007	<.01	<.01
24...	--	.013	.005	.003	<.01	<.01
24...	--	.020	.005	.005	<.01	<.01
FEB						
03...	--	.113	.006	.008	<.01	<.01
04...	--	.006	.006	.001	<.01	<.01
15...	.15	<.014	<.010	<.010	<.01	<.01
28...	--	.010	.008	.000	<.01	<.01
MAR						
22...	--	.034	.002	.000	<.01	<.01
APR						
14...	--	.015	.006	.001	<.01	<.01
15...	--	.074	.001	.001	<.01	<.01
15...	--	.216	.005	.004	<.01	<.01
16...	--	.110	.012	.004	<.01	<.01
25...	--	.029	.029	.006	.02	.01
26...	--	.042	.021	.007	.02	.00
27...	--	.048	.004	.002	<.01	--
MAY						
05...	.15	.028	<.012	<.010	<.01	<.01
18...	--	.016	.009	.000	<.01	--
JUN						
07...	--	.028	.017	.001	<.01	--
21...	--	.017	.002	.001	<.01	--
21...	--	.015	.003	.002	<.01	--
JUL						
12...	--	.010	.010	.005	<.01	--
AUG						
02...	--	.012	.010	.007	<.01	--
23...	--	.018	.006	.003	<.01	--
SEP						
08...	--	.064	.020	.003	<.01	--
27...	--	.042	.010	.004	.01	.00
OCT						
18...	--	.180	.015	.005	.000	<.01

0424016825 AMBER BROOK AT AMBER, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	.00	24	.15	7	.10	7	.11	22	.42	10	.11
2	0	.00	19	.13	6	.07	5	.08	20	.36	10	.11
3	0	.00	16	.07	6	.06	4	.05	62	5.0	9	.10
4	0	.00	36	1.4	6	.07	2	.02	20	.65	9	.10
5	2	.00	37	.97	27	.29	1	.01	8	.19	9	.09
6	12	.01	22	.24	22	.29	2	.03	4	.09	12	.11
7	7	.00	17	.11	17	.18	4	.05	3	.06	12	.11
8	6	.01	11	.05	14	.12	66	.61	3	.05	10	.10
9	4	.00	4	.02	14	.12	27	.20	3	.05	10	.10
10	3	.00	3	.01	13	.08	14	.11	3	.05	10	.11
11	3	.00	3	.01	22	.15	21	.40	4	.06	11	.16
12	3	.00	14	.34	15	.11	16	.22	7	.09	8	.10
13	3	.00	18	.38	6	.04	12	.16	13	.15	6	.07
14	3	.00	3	.03	2	.02	11	.15	9	.10	5	.06
15	4	.01	2	.01	2	.05	50	.65	5	.06	5	.05
16	8	.03	2	.01	38	1.4	22	.29	5	.07	4	.04
17	15	.07	2	.01	20	.33	14	.17	4	.07	4	.04
18	5	.01	1	.00	18	.24	11	.14	4	.06	4	.04
19	4	.00	2	.00	25	.31	10	.12	3	.04	4	.04
20	4	.00	2	.00	19	.25	8	.09	3	.05	4	.05
21	4	.00	12	.21	17	.22	5	.06	6	.11	11	.26
22	3	.00	26	.48	16	.22	4	.04	9	.20	6	.11
23	3	.00	29	.65	13	.18	6	.08	10	.23	4	.05
24	3	.00	10	.16	19	.31	10	.19	10	.19	4	.04
25	3	.00	7	.09	18	.49	10	.18	10	.18	4	.03
26	2	.00	6	.06	14	.42	12	.21	11	.13	28	.24
27	8	.01	6	.04	8	.17	8	.12	7	.07	41	.44
28	10	.01	7	.05	25	1.2	8	.13	4	.04	30	.60
29	9	.01	23	.48	14	.36	7	.11	---	---	25	.47
30	8	.00	14	.28	10	.20	8	.15	---	---	18	.36
31	17	.02	---	---	8	.13	16	.35	---	---	13	.24
TOTAL	---	0.19	---	6.44	---	8.18	---	5.28	---	8.82	---	4.53

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11	.15	22	1.5	15	.20	5	.02	4	.00	3	.00
2	7	.09	16	1.0	11	.10	3	.00	3	.00	3	.00
3	7	.11	13	.63	10	.08	3	.00	3	.00	3	.00
4	8	.11	13	.53	10	.09	3	.00	3	.00	3	.00
5	7	.09	12	.36	8	.06	3	.00	16	.03	9	.03
6	6	.08	11	.30	9	.09	3	.00	17	.04	11	.01
7	6	.08	10	.24	6	.06	3	.00	10	.01	3	.00
8	6	.09	26	1.2	4	.03	3	.00	7	.00	2	.00
9	3	.04	16	.52	3	.02	3	.00	6	.00	2	.00
10	70	2.7	10	.25	3	.02	3	.00	4	.00	4	.00
11	25	.61	9	.20	3	.02	3	.00	13	.07	1	.00
12	9	.18	9	.19	3	.02	5	.00	14	.03	1	.00
13	8	.13	8	.15	4	.02	4	.00	8	.01	2	.00
14	8	.11	7	.12	4	.02	4	.00	6	.00	2	.00
15	178	14	7	.13	3	.01	3	.00	5	.00	2	.00
16	59	4.6	12	.24	13	.38	3	.00	4	.00	2	.00
17	22	1.1	10	.16	31	.73	2	.00	4	.00	2	.00
18	26	.98	10	.15	38	.56	2	.00	4	.00	2	.00
19	21	.62	10	.15	24	.14	2	.00	3	.00	2	.00
20	22	.71	11	.19	19	.10	2	.00	2	.00	2	.00
21	21	.62	10	.13	17	.08	2	.00	1	.00	2	.01
22	26	.84	9	.11	14	.06	2	.00	2	.00	2	.02
23	38	2.6	8	.11	11	.04	2	.00	4	.00	2	.00
24	222	48	8	.09	8	.03	2	.00	4	.00	1	.00
25	146	34	8	.08	5	.02	2	.00	3	.00	1	.00
26	157	62	14	.20	4	.01	2	.00	2	.00	1	.00
27	45	5.0	14	.13	4	.01	2	.00	2	.00	2	.00
28	22	2.2	13	.12	21	.30	2	.00	2	.00	2	.00
29	20	1.3	11	.10	14	.06	2	.00	2	.00	2	.00
30	177	33	20	.30	8	.03	3	.00	2	.00	2	.00
31	---	---	15	.21	---	---	9	.03	4	.00	---	---
TOTAL	---	216.14	---	9.79	---	3.39	---	0.05	---	0.19	---	0.07

0424016975 VANBENTHUYSEN BROOK NEAR AMBER, NY

LOCATION.--Lat 42°53'40", Long 76°18'08", Onondaga County, Hydrologic Unit 04140201, on right bank just upstream from bridge on Otisco Valley Road, 0.1 mi upstream from mouth, 0.6 mi north of Amber, and 0.8 mi north of intersection with Amber Road. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5.84 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1982 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge 100 ft^3/s Apr. 26, 1983; gage height, 3.64 ft; flood of Oct. 28, 1981 was considerably higher, discharge not determined; minimum daily discharge, 0.06 ft^3/s July 27, 1983; minimum daily gage height, 2.35 ft Aug. 30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft^3/s Apr. 26, gage height, 3.64 ft; minimum daily discharge, 0.06 ft^3/s July 27; minimum daily gage height, 2.35 ft Aug. 30.

REVISIONS.--The maximum discharge for the water year 1982 has been revised to 62 cfs Mar. 13, 1982, gage height, 3.36 ft, superseding figure published in WDR NY-82-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	1.1	7.1	3.8	6.0	4.3	5.0	34	7.2	1.5	.30	.68
2	.30	1.4	4.6	4.0	5.0	4.3	4.6	28	5.0	1.3	.25	.30
3	.30	1.2	2.7	4.0	40	4.0	5.4	19	3.7	1.5	.12	.21
4	.34	5.6	3.8	3.4	24	3.7	5.4	17	3.7	1.7	.10	.18
5	.30	12	3.5	4.2	12	3.4	4.6	16	3.7	1.5	.18	.30
6	.23	5.2	3.8	5.2	8.4	3.4	4.0	14	16	1.2	.25	.49
7	.23	2.7	3.3	3.1	7.2	3.2	4.6	12	5.0	.91	.21	.42
8	.34	2.0	2.7	3.1	6.2	3.4	5.4	13	2.9	.91	.18	.25
9	.71	1.8	2.7	2.5	5.6	4.3	4.6	22	1.9	.91	.21	.21
10	1.0	1.5	2.3	2.7	5.0	4.3	12	12	1.7	.80	.12	.35
11	.71	1.6	2.5	4.6	4.7	6.5	12	9.9	1.3	.91	.21	.42
12	.60	2.7	2.9	4.9	4.3	6.5	9.4	8.5	1.2	.91	.68	.30
13	.51	4.3	2.6	4.8	4.0	5.0	7.2	7.2	1.3	.80	.68	.25
14	.46	2.7	2.8	4.7	3.6	5.4	5.4	6.8	1.2	.25	.49	.18
15	.71	2.4	3.1	4.6	4.2	4.3	16	6.8	1.2	.21	.35	.18
16	1.0	1.9	14	4.6	5.8	4.0	30	8.9	3.3	.21	.42	.15
17	1.2	1.9	10	4.4	7.0	3.4	20	7.2	16	.21	.42	.18
18	.90	1.8	7.0	4.4	6.6	3.2	14	5.8	17	.10	.49	.30
19	.71	1.6	3.8	4.2	4.5	3.2	10	5.8	6.8	.10	.35	.25
20	.60	1.6	3.9	4.2	6.5	4.0	12	7.2	3.4	.08	.30	2.1
21	.71	3.8	3.9	4.0	7.2	6.1	11	6.1	2.4	.15	1.5	2.9
22	.60	9.1	4.0	4.4	6.8	9.9	13	5.0	2.1	.18	1.7	3.2
23	.60	11	3.9	5.0	6.5	5.6	36	4.0	1.7	.10	.49	1.0
24	.55	7.6	3.8	6.0	6.1	4.6	80	3.7	1.3	.15	.25	.58
25	.46	5.6	11	5.6	5.4	3.3	50	3.7	1.2	.15	.18	.42
26	.42	4.6	13	5.4	3.6	3.3	72	5.0	1.2	.08	.12	.35
27	.55	3.8	7.6	5.8	3.0	4.6	58	4.6	1.2	.06	.15	.30
28	.46	3.3	13	5.0	4.0	6.8	36	4.3	3.7	.08	.15	.18
29	.51	8.1	9.1	5.2	---	8.5	28	4.0	4.3	.25	.10	.21
30	.55	10	6.3	6.0	---	4.9	44	5.4	2.1	.58	.08	.21
31	.60	---	4.3	7.0	---	5.4	---	6.8	---	.58	.80	---
TOTAL	17.62	123.9	169.0	140.8	213.2	146.8	619.6	313.7	124.7	18.37	11.83	17.05
MEAN	.57	4.13	5.45	4.54	7.61	4.74	20.7	10.1	4.16	.59	.38	.57
MAX	1.2	12	14	7.0	40	9.9	80	34	17	1.7	1.7	3.2
MIN	.23	1.1	2.3	2.5	3.0	3.2	4.0	3.7	1.2	.06	.08	.15
CFSM	.10	.71	.93	.78	1.30	.81	3.55	1.73	.71	.10	.07	.10
IN.	.11	.79	1.08	.90	1.36	.93	3.95	2.00	.79	.12	.08	.11

WTR YR 1983 TOTAL 1916.57 MEAN 5.25 MAX 80 MIN .06 CFSM .90 IN 12.21

0424016975 VANBENTHUYSEN BROOK NEAR AMBER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1981 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (e).
SEDIMENT DATA: 1982-83 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1981 to September 1983 (discontinued).

REMARKS.--Samples analyzed by the Onondaga Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended-sediment analyses done by U.S. Geological Survey Ohio District laboratory.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 208 mg/L Mar. 13, 1983; minimum daily mean 0 mg/L many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 34 tons Apr. 24,1983; minimum daily, 0.00 tons many days.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean 159 mg/L Apr. 24; minimum daily mean 0 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily 34 tons Apr. 24; minimum daily 0.00 tons on many days.

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT							
06...	0945	83631	.24	0	.00	.03	.100
26...	1225	83631	.39	19	.02	.60	<.100
NOV							
09...	1005	83620	1.8	44	.21	.10	--
DEC							
01...	1010	83620	7.1	11	.21	.90	--
14...	1030	83620	2.8	6	.05	1.1	--
JAN							
04...	1040	83620	3.2	1	.00	2.0	--
24...	1145	83620	6.5	5	.09	1.3	--
24...	1150	83620	--	--	--	1.3	--
FEB							
03...	1150	83620	45	163	20	1.8	--
04...	1300	83620	38	20	2.1	2.1	--
15...	1220	83620	4.2	2	.02	1.8	--
28...	1010	83620	4.3	23	.27	.84	--
MAR							
22...	1135	83620	11	9	.27	.55	--
APR							
14...	1030	83620	5.4	6	.09	1.7	--
15...	1010	83620	14	91	3.4	.74	--
15...	1220	83620	19	--	--	.72	--
16...	0955	83620	50	63	8.5	1.2	--
25...	1005	83620	99	58	16	2.0	--
26...	1030	83620	58	17	2.7	2.1	--
27...	0930	83620	62	22	3.7	2.1	--
MAY							
05...	1015	83620	16	6	.26	.85	--
18...	1120	83620	6.1	6	.10	.39	--
JUN							
07...	1055	83620	5.4	10	.15	.21	--
21...	1120	83620	2.7	4	.03	.81	--
21...	1125	83620	--	--	--	.74	--
JUL							
12...	1010	83620	.91	8	.02	.60	--
AUG							
02...	1245	83620	.21	1	.00	.46	--
23...	0950	83620	.49	0	.00	.62	--
SEP							
08...	1000	83620	.30	10	.00	5.3	--
27...	1020	83620	.30	0	.00	.34	--
OCT							
18...	1005	83620	.35	0	.00	.44	--

0424016975 VANBENTHUYSEN BROOK NEAR AMBER, NY--Continued

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOS-PHORUS, ORGANIC DIS-SOLVED (MG/L AS P)
OCT						
06...	.20	.060	.045	.015	.04	.01
26...	.40	.058	.045	.010	.04	.01
NOV						
09...	.05	.020	.010	<.010	<.01	<.01
DEC						
01...	.10	.030	.010	<.010	<.01	<.01
14...	<.05	.040	.030	<.010	<.01	.02
JAN						
04...	--	.018	.013	.008	.01	.00
24...	--	.027	.005	.001	<.01	<.01
24...	--	.031	.007	.007	<.01	<.01
FEB						
03...	--	.240	.015	.014	.02	.00
04...	--	.146	.030	.014	.02	.01
15...	--	.022	.011	.010	.01	.00
28...	--	.029	.021	.003	.01	.01
MAR						
22...	--	.043	.013	.006	.01	.00
APR						
14...	--	.042	.012	.004	.01	.00
15...	--	.130	.002	.002	<.01	<.01
15...	--	.101	.002	.002	<.01	<.01
16...	--	.092	.003	.001	<.01	<.01
25...	--	.116	.017	.013	.02	.00
26...	--	.039	.023	.002	.02	.00
27...	--	.034	.034	.007	.02	.02
MAY						
05...	--	.045	.004	.002	<.01	--
18...	--	.033	.009	.005	<.01	--
JUN						
07...	--	.030	.026	.002	.01	.02
21...	--	.037	.018	.006	<.01	--
21...	--	.036	.019	.006	<.01	--
JUL						
12...	--	.034	.025	.008	.02	.00
AUG						
02...	--	.025	.019	.012	.01	.00
23...	--	.030	.015	.006	.01	.00
SEP						
08...	--	.025	.010	.007	.01	.00
27...	--	.100	.030	.007	.006	<.01
OCT						
18...	--	.130	.015	.002	.002	<.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
FEB							
03...	1150	45	163	20	19	36	51

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
FEB							
03...	66	78	86	91	97	99	100

0424016975 VANBENTHUYSEN BROOK NEAR AMBER, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	.00	8	.02	12	.23	13	.13	11	.18	17	.20
2	0	.00	7	.03	7	.09	12	.13	16	.22	14	.16
3	0	.00	5	.02	7	.05	9	.10	110	12	10	.11
4	0	.00	42	.98	7	.07	6	.06	24	1.9	6	.06
5	0	.00	27	.91	30	.28	5	.06	11	.36	5	.05
6	0	.00	7	.10	20	.21	5	.07	9	.20	5	.05
7	0	.00	1	.00	16	.14	5	.04	9	.17	5	.04
8	2	.00	1	.00	14	.10	57	.46	8	.13	5	.05
9	13	.04	1	.00	13	.09	35	.24	7	.11	5	.06
10	4	.01	1	.00	13	.08	23	.17	6	.08	4	.05
11	1	.00	2	.00	57	.38	20	.25	5	.06	6	.11
12	1	.00	8	.10	36	.28	19	.25	4	.05	4	.07
13	1	.00	10	.12	13	.09	19	.25	4	.04	3	.04
14	1	.00	2	.01	6	.05	19	.24	3	.03	4	.06
15	4	.00	1	.00	5	.04	31	.39	3	.03	4	.05
16	8	.03	0	.00	49	2.1	22	.27	4	.06	4	.04
17	11	.04	0	.00	25	.68	16	.19	4	.08	4	.04
18	4	.00	0	.00	10	.19	13	.15	4	.07	4	.03
19	2	.00	0	.00	6	.06	11	.12	3	.04	5	.04
20	2	.00	1	.00	6	.06	11	.12	25	.44	5	.05
21	2	.00	7	.15	4	.04	10	.11	21	.41	14	.23
22	2	.00	20	.49	4	.04	8	.10	19	.35	12	.32
23	2	.00	23	.68	6	.06	6	.08	17	.30	8	.12
24	3	.00	18	.37	18	.18	5	.08	17	.28	8	.10
25	3	.00	14	.21	21	.62	6	.09	16	.23	8	.07
26	3	.00	11	.14	17	.60	5	.07	14	.14	11	.10
27	5	.00	24	.22	14	.29	6	.09	19	.15	20	.25
28	5	.00	19	.17	47	1.8	6	.08	21	.23	21	.39
29	5	.00	29	.63	20	.49	7	.10	---	---	22	.50
30	5	.00	27	.73	15	.26	44	.71	---	---	19	.25
31	4	.00	---	---	14	.16	20	.38	---	---	14	.20
TOTAL	---	0.12	---	6.08	---	9.81	---	5.58	---	18.34	---	3.89

DAY	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8	.11	21	1.9	4	.08	3	.01	3	.00	2	.00
2	4	.05	18	1.4	4	.05	3	.01	1	.00	3	.00
3	2	.03	16	.82	4	.04	3	.01	1	.00	3	.00
4	2	.03	10	.46	4	.04	4	.02	2	.00	2	.00
5	2	.02	6	.26	3	.03	3	.01	10	.00	8	.00
6	1	.01	6	.23	30	1.8	4	.01	20	.01	12	.02
7	2	.02	5	.16	13	.18	4	.00	10	.00	10	.01
8	3	.04	24	1.4	5	.04	4	.00	5	.00	10	.00
9	3	.04	39	2.4	4	.02	4	.00	2	.00	9	.00
10	36	1.4	19	.62	3	.01	9	.02	3	.00	6	.00
11	31	1.2	12	.32	3	.01	9	.02	5	.00	2	.00
12	15	.38	8	.18	3	.00	8	.02	6	.01	1	.00
13	8	.16	5	.10	3	.01	7	.02	3	.00	0	.00
14	6	.09	2	.04	3	.00	5	.00	1	.00	0	.00
15	75	5.2	1	.02	4	.01	5	.00	1	.00	0	.00
16	30	2.4	5	.12	19	.56	4	.00	1	.00	0	.00
17	17	.92	6	.12	59	2.5	2	.00	1	.00	0	.00
18	12	.45	6	.09	44	2.3	2	.00	1	.00	0	.00
19	10	.27	7	.11	13	.24	2	.00	1	.00	0	.00
20	8	.26	9	.17	5	.05	2	.00	2	.00	9	.05
21	8	.24	10	.16	4	.03	3	.29	13	.29	13	.10
22	10	.35	9	.12	4	.02	3	.00	7	.03	12	.10
23	45	4.4	8	.09	4	.02	2	.00	1	.00	4	.01
24	159	34	7	.07	4	.01	2	.00	0	.00	1	.00
25	65	8.8	6	.06	4	.01	3	.00	0	.00	0	.00
26	36	7.6	5	.07	5	.02	3	.00	0	.00	0	.00
27	24	3.8	3	.04	5	.02	3	.00	2	.00	0	.00
28	18	1.7	2	.02	12	.17	3	.00	1	.00	0	.00
29	15	1.1	2	.02	7	.08	5	.00	1	.00	0	.00
30	40	4.8	4	.06	5	.03	4	.00	1	.00	0	.00
31	---	---	3	.06	---	---	3	.00	3	.00	---	---
TOTAL	---	79.87	---	11.69	---	8.40	---	0.44	---	0.34	---	0.29

04240180 NINEMILE CREEK NEAR MARIETTA, NY

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, Hydrologic Unit 04140201, on right bank 25 ft upstream from bridge on Schuyler Road, 0.9 mi north of Marietta, and 1.8 mi downstream from Otisco Lake. Water-quality sampling site at discharge station.

DRAINAGE AREA.--45.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1963. June 1964 to current year.

REVISED RECORDS.--WRD NY 1971: 1966(M), 1968, 1969. WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 748.25 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

AVERAGE DISCHARGE.--19 years (water years 1965-83), 40.3 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s June 23, 1972, gage height, 8.65 ft; minimum, 0.80 ft³/s Sept. 13, 18, 19, 1966, gage height, 0.61 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 483 ft³/s Apr.26, gage height, 6.19 ft; minimum, 2.5 ft³/s Dec. 13; minimum gage height, 0.81 ft Oct. 18, 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	4.6	5.5	5.7	4.6	5.2	5.2	355	30	7.3	5.9	5.7
2	16	4.3	4.3	5.5	6.6	5.0	5.0	342	27	7.2	5.7	5.5
3	16	3.8	3.8	5.0	51	5.0	5.7	320	25	6.9	5.6	5.5
4	16	11	3.8	4.6	14	5.2	5.0	295	25	6.8	5.7	5.5
5	16	8.2	3.6	4.6	9.3	5.0	4.8	260	23	6.6	5.9	6.0
6	16	3.9	3.9	4.8	7.2	5.0	4.6	248	18	6.7	5.9	6.0
7	16	3.3	3.2	5.0	6.8	5.0	5.5	235	13	6.5	5.8	5.9
8	12	3.2	2.9	4.6	6.2	5.2	5.7	212	11	6.6	5.7	6.0
9	5.9	3.1	3.1	4.3	5.6	6.1	5.0	210	11	6.8	5.8	6.0
10	5.7	3.1	2.8	4.5	5.4	5.9	15	190	9.9	6.7	5.8	6.6
11	5.7	3.3	2.7	7.3	5.4	8.6	8.9	169	8.4	6.7	6.6	6.2
12	5.9	4.6	2.6	5.2	5.2	7.1	7.5	147	8.4	6.7	6.2	6.2
13	5.7	5.9	2.6	4.8	4.9	6.6	6.4	134	8.2	6.5	6.0	6.0
14	4.5	3.9	2.8	4.5	4.7	6.4	6.8	111	8.2	6.3	5.7	6.0
15	3.3	3.6	4.5	4.3	4.7	5.9	35	99	8.3	6.3	5.7	5.9
16	3.5	3.6	14	4.2	6.2	5.5	41	96	12	6.2	5.3	5.9
17	3.3	3.5	6.1	4.2	8.9	5.2	38	84	18	6.2	5.3	6.2
18	2.8	3.5	4.1	4.2	8.6	5.0	50	72	13	6.2	5.3	6.0
19	2.7	3.5	4.0	4.2	7.3	5.2	61	72	9.3	6.2	5.3	6.2
20	2.8	3.5	3.9	4.1	6.8	5.7	86	71	8.4	6.1	5.5	5.3
21	3.2	7.1	3.9	4.5	7.3	9.3	111	63	7.9	6.5	5.5	7.0
22	3.1	7.5	3.8	5.2	6.8	8.6	125	61	7.5	6.2	5.7	4.1
23	3.1	9.6	4.1	8.4	6.8	6.1	157	48	7.0	6.1	5.5	3.8
24	3.2	6.6	10	9.8	6.1	5.7	241	35	6.6	6.1	5.5	3.8
25	3.3	4.8	13	7.9	5.7	4.8	380	33	6.3	5.8	5.5	3.7
26	3.6	4.3	14	6.6	5.2	4.8	432	36	6.3	5.8	5.7	3.7
27	3.5	3.9	7.9	5.6	5.0	5.7	452	32	6.4	5.7	5.7	3.7
28	3.3	3.9	20	5.2	5.2	7.9	403	30	10	5.7	5.7	3.5
29	3.5	9.1	9.1	5.0	---	8.4	355	29	7.1	5.9	5.7	3.5
30	3.5	9.3	7.1	4.8	---	5.9	393	30	7.3	5.9	5.9	3.5
31	3.6	---	5.9	4.6	---	5.7	---	31	---	6.2	6.0	---
TOTAL	211.7	153.5	183.0	163.2	227.5	186.7	3451.1	4150	367.5	197.4	177.1	158.9
MEAN	6.83	5.12	5.90	5.26	8.13	6.02	115	134	12.3	6.37	5.71	5.30
MAX	16	11	20	9.8	51	9.3	452	355	30	7.3	6.6	7.0
MIN	2.7	3.1	2.6	4.1	4.6	4.8	4.6	29	6.3	5.7	5.3	3.5

CAL YR 1982 TOTAL 11704.3 MEAN 32.1 MAX 127 MIN 2.6
WTR YR 1983 TOTAL 9627.6 MEAN 26.4 MAX 452 MIN 2.6

04240180 NINEMILE CREEK NEAR MARIETTA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1982 to October 1983 (discontinued).
NUTRIENT DATA: 1982-83 (d).
SEDIMENT DATA: 1982 (c), 1983 (d).

REMARKS.--Samples analysed by the Onondaga County Department of Drainage and Sanitation are designated by the value 83631 for agency analyzing sample code. Samples analyzed by the Upstate Freshwater Institute are designated by the value 83620 for agency analyzing sample code. Suspended-sediment analyses done by the U.S.Geological Survey Ohio District laboratory.

WATER QUALITY DATA, OCTOBER 1982 TO OCTOBER 1983

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT							
26...	1125	83631	3.4	1	.00	.12	<.100
DEC							
01...	0930	83620	5.5	--	--	.80	--
JAN							
04...	1000	83620	4.1	20	.22	1.1	--
24...	1100	83620	11	9	.27	.86	--
FEB							
15...	1150	83620	4.7	5	.06	.93	--
MAR							
22...	1115	83620	8.0	4	.09	.58	--
APR							
14...	0950	83620	6.8	16	.29	.43	--
26...	1000	83620	397	11	12	.49	--
27...	0900	83620	457	11	14	.44	--
MAY							
18...	1030	83620	73	13	2.6	.40	--
JUN							
07...	1010	83620	14	12	.45	.40	--
JUL							
12...	0925	83620	6.8	35	.64	.28	--
AUG							
02...	1305	83620	6.0	25	.41	.25	--
SEP							
08...	0915	83620	6.0	21	.34	.51	--
OCT							
18...	0925	83620	10	12	.32	.20	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	PHOSPHORUS, ORGANIC DISSOLVED (MG/L AS P)
OCT						
26...	.29	.065	.045	.010	.04	.01
DEC						
01...	.37	.030	.020	<.010	.01	.01
JAN						
04...	--	.015	.025	.004	.02	.00
24...	--	.029	.005	.001	<.01	<.01
FEB						
15...	--	.025	.005	.003	<.01	<.01
MAR						
22...	--	.034	.003	.003	<.01	<.01
APR						
14...	--	.080	.001	.001	<.01	<.01
26...	--	.033	.002	.000	<.01	--
27...	--	.033	.001	.000	<.01	--
MAY						
18...	--	.025	.007	.000	<.01	--
JUN						
07...	--	.034	.004	.000	<.01	--
JUL						
12...	--	.053	.010	.010	.01	.00
AUG						
02...	--	.076	.019	.006	<.01	--
SEP						
08...	--	.028	.010	.003	<.01	--
OCT						
18...	--	.034	.004	.001	.01	--

04240300 NINEMILE CREEK AT LAKELAND, NY

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, Hydrologic Unit 04140201, on left bank 30 ft downstream from bridge on State Highway 48, 0.6 mi downstream from Geddes Brook, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to September 1973, July 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.67 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply. Flow affected by backwater from Onondaga Lake whenever lake level exceeds about 362 ft NGVD.

AVERAGE DISCHARGE.--10 years (1972-73, 1976-83), 224 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,110 ft^3/s June 23, 1972; maximum gage height, 8.75 ft Sept. 26, 1975 (backwater from Onondaga Lake); minimum daily discharge, 28 ft^3/s Aug. 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,200 ft^3/s Apr. 25; maximum gage height, 7.68 ft Apr. 30 (backwater from Onondaga Lake); minimum daily discharge, 36 ft^3/s July 25.

REVISIONS.--The maximum daily discharges for some water years have been revised as shown in the following table. They supersede figures published in WDR-NY-72, WDR-NY-76-1, WDR-NY-79-1, and WDR-NY-82-3.

Water year	Date	Discharge (ft^3/s)	Water year	Date	Discharge (ft^3/s)
1972	June 23, 1972	2,110	1979	Mar. 5, 1979	1,900
1976	Apr. 16, 1976	1,240	1982	Oct. 28, 1981	1,650

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	68	104	92	115	104	107	972	155	75	67	65
2	69	68	87	84	136	104	99	910	139	73	70	60
3	66	60	69	79	453	104	106	866	126	69	75	55
4	67	134	66	67	462	104	101	759	132	64	52	50
5	62	175	60	67	230	104	89	652	120	73	63	60
6	62	93	77	77	167	96	83	592	115	63	60	65
7	62	66	68	69	150	98	92	564	112	64	55	60
8	67	56	60	69	131	101	99	555	102	67	55	55
9	62	67	63	63	119	104	99	649	93	73	53	55
10	50	58	47	79	110	102	201	514	89	68	50	52
11	42	49	47	115	114	139	230	445	80	62	55	50
12	52	48	43	115	110	139	179	375	77	61	67	48
13	58	72	39	79	110	119	126	337	76	55	60	45
14	54	62	50	84	101	115	89	329	72	44	66	43
15	56	61	61	95	98	114	244	290	73	44	61	43
16	68	61	174	95	107	109	626	313	71	47	61	42
17	64	53	162	86	132	98	453	290	146	44	63	41
18	52	47	82	90	174	99	292	226	170	45	83	50
19	49	44	71	86	153	90	239	248	106	42	79	68
20	39	47	63	90	141	93	278	273	89	39	77	93
21	53	77	66	89	136	126	352	220	86	46	54	99
22	50	107	62	87	132	185	442	197	84	54	62	75
23	44	114	66	106	132	137	549	195	61	47	64	60
24	40	114	117	151	131	98	779	151	67	40	63	50
25	53	110	179	162	119	101	1200	143	67	36	58	50
26	47	100	222	148	110	92	1130	164	66	38	55	45
27	50	90	170	126	98	99	1140	157	67	38	60	45
28	53	90	230	112	104	117	938	141	109	44	50	40
29	55	110	183	107	---	151	789	112	101	52	40	40
30	54	126	124	106	---	117	1180	144	77	50	47	42
31	48	---	104	120	---	104	---	150	---	56	69	---
TOTAL	1720	2427	3016	2995	4275	3463	12331	11933	2928	1673	1894	1646
MEAN	55.5	80.9	97.3	96.6	153	112	411	385	97.6	54.0	61.1	54.9
MAX	72	175	230	162	462	185	1200	972	170	75	83	99
MIN	39	44	39	63	98	90	83	112	61	36	40	40

CAL YR 1982 TOTAL 54014 MEAN 148 MAX 950 MIN 39
WTR YR 1983 TOTAL 50301 MEAN 138 MAX 1200 MIN 36

04240495 ONONDAGA LAKE AT LIVERPOOL, NY

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, Hydrologic Unit 04140201, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft southwest of Onondaga Lake Parkway, and 1.9 mi upstream from outlet of lake.

DRAINAGE AREA.--285 mi^2.

PERIOD OF RECORD.--October 1970 to current year. Elevation records, at Barge Canal datum, since February 1927 collected by, and in files of, New York State Department of Transportation at Syracuse.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake elevation regulated by operation of Erie (Barge) Canal. Area of water surface, 4.60 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.21 ft June 30, 1972; minimum, 361.54 ft Mar. 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 367.19 ft Apr. 30; minimum, 362.31 ft June 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.98	362.74	363.02	362.97	362.56	362.65	362.95	367.11	363.45	362.74	362.84	362.97
2	362.85	362.81	363.00	362.85	362.55	362.66	362.97	367.06	363.52	362.75	362.88	362.90
3	362.87	362.86	362.81	362.73	362.99	362.65	362.90	367.10	363.28	362.76	362.71	362.94
4	362.79	362.93	363.06	362.65	363.63	362.64	362.86	367.10	363.14	362.80	362.86	362.88
5	362.71	363.21	363.14	362.53	363.63	362.63	362.80	366.99	362.81	362.88	362.90	362.94
6	362.71	362.98	363.16	362.71	363.40	362.56	362.77	366.79	362.69	362.84	362.95	362.85
7	362.79	362.80	363.16	363.06	363.21	362.57	362.73	366.50	362.59	362.80	362.90	362.94
8	362.74	362.72	363.05	363.05	362.96	362.66	362.76	366.22	362.60	362.80	362.85	362.87
9	362.71	362.77	363.03	362.96	362.65	362.66	362.67	366.15	362.80	362.84	362.77	362.90
10	362.79	362.94	363.02	362.91	362.69	362.55	362.78	365.89	362.70	362.79	362.75	362.81
11	362.70	362.87	363.01	362.99	362.71	362.61	363.14	365.61	362.56	362.67	362.76	362.88
12	362.61	362.73	362.94	362.99	362.70	362.67	363.24	365.35	362.61	362.69	362.79	362.81
13	362.66	362.83	362.86	362.95	362.66	362.68	363.25	365.18	362.67	362.77	362.79	362.85
14	362.76	362.81	362.66	362.85	362.63	362.72	363.23	365.03	362.73	362.82	362.79	362.80
15	362.81	362.68	362.60	362.74	362.59	362.77	363.46	364.94	362.83	362.77	362.80	362.82
16	362.82	362.78	363.13	362.72	362.55	362.79	364.14	364.90	362.90	362.64	362.81	362.75
17	362.84	362.93	363.20	362.68	362.50	362.76	364.57	364.80	362.95	362.69	362.79	362.75
18	362.81	362.82	363.07	362.64	362.64	362.60	364.63	364.72	362.97	362.72	362.84	362.87
19	362.86	362.75	363.00	362.65	362.82	362.48	364.51	364.52	362.86	362.76	362.97	362.82
20	362.87	362.62	362.96	362.74	362.92	362.47	364.62	364.42	362.83	362.65	362.98	362.98
21	362.91	362.82	362.84	362.80	362.96	362.52	364.81	364.22	362.90	362.67	362.85	362.96
22	362.98	362.97	362.75	362.81	362.93	362.77	364.91	364.00	362.95	362.71	362.76	362.79
23	362.85	362.97	362.71	362.81	362.93	363.01	365.20	363.96	362.96	362.76	362.76	362.76
24	362.75	362.74	362.77	362.81	362.92	363.03	365.63	363.73	362.97	362.82	362.80	362.66
25	362.61	363.19	362.91	362.82	362.91	362.94	366.31	363.49	362.88	362.73	362.87	362.69
26	362.81	363.20	363.14	362.81	362.86	362.82	366.76	363.13	362.59	362.79	362.85	362.60
27	362.76	363.13	363.28	362.75	362.80	362.68	366.96	363.39	362.39	362.77	362.89	362.70
28	362.68	363.02	363.52	362.71	362.72	362.67	367.03	363.47	362.62	362.70	362.95	362.76
29	362.74	363.03	363.30	362.68	---	362.94	367.00	363.45	362.93	362.71	362.87	362.65
30	362.70	363.02	363.03	362.60	---	362.95	367.13	363.43	362.93	362.75	362.80	362.62
31	362.71	---	362.99	362.59	---	362.84	---	363.43	---	362.78	362.92	---
MEAN	362.78	362.89	363.00	362.79	362.86	362.71	364.29	365.03	362.85	362.75	362.84	362.82
MAX	362.98	363.21	363.52	363.06	363.63	363.03	367.13	367.11	363.52	362.88	362.98	362.98
MIN	362.61	362.62	362.60	362.53	362.50	362.47	362.67	363.13	362.39	362.64	362.71	362.60

CAL YR 1982 MEAN 363.05 MAX 365.39 MIN 362.19
WTR YR 1983 MEAN 363.14 MAX 367.13 MIN 362.39

04242500 EAST BRANCH FISH CREEK AT TABERG, NY

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, Hydrologic Unit 04140202, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft upstream from bridge on State Highway 69, and 2.8 mi upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 mi^2.

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45.

GAGE.--Water-stage recorder. Datum of gage is 490.12 ft National Geodetic Vertical Datum of 1929. Prior to May 20, 1969, at datum 1.00 ft higher.

REMARKS.--Records fair except those for winter periods, which are poor. Diversion above station for municipal supply by cities of Rome and Oneida (1983 average, 26 ft^3/s). Diurnal fluctuation at low flow caused by diversion and small power operations upstream.

AVERAGE DISCHARGE.--60 years (water years 1924-83), 541 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,500 ft^3/s June 22, 1972, gage height, 11.71 ft; maximum gage height, 11.90 ft, present datum, Oct. 2, 1945; minimum discharge, 4.9 ft^3/s Aug. 15, 16, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,520 ft^3/s April 16 at 0600 hours, gage height, 6.39 ft, no peak above base of 4,900 ft^3/s; minimum, 21 ft^3/s July 14,15, gage height, 0.35 ft (result of regulation).

REVISIONS.--The maximum discharge for the water year 1980 has been revised to 11,200 ft^3/s April 9, 1980, gage height, 10.27 ft, superceeding figure published in WDR NY-80-1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	213	1030	565	241	208	403	1350	786	67	110	150
2	188	332	727	503	267	249	420	1590	575	65	303	91
3	163	407	565	420	1100	313	540	2040	394	59	261	61
4	152	394	535	280	1400	328	698	1520	381	59	137	49
5	133	903	545	300	780	489	687	1040	467	56	94	49
6	120	709	788	380	600	545	600	804	429	67	126	50
7	112	494	810	368	480	1040	585	616	565	60	97	49
8	518	390	565	340	370	1210	721	859	437	51	61	42
9	503	320	450	250	290	974	654	1520	306	49	56	42
10	356	277	277	286	240	810	770	948	246	48	44	64
11	244	243	310	706	220	865	1070	721	210	44	50	124
12	190	303	270	968	220	648	798	585	186	38	300	94
13	172	595	213	560	210	503	637	498	161	34	512	71
14	163	560	235	440	200	472	503	420	135	49	258	53
15	248	442	286	380	220	450	1580	412	120	52	150	44
16	688	352	1600	340	220	416	3780	585	112	29	99	38
17	480	324	1720	280	230	450	2000	498	104	28	72	43
18	352	287	694	220	240	503	1340	398	107	30	85	65
19	270	280	485	180	240	774	948	344	100	32	195	73
20	227	290	429	180	220	1110	780	744	85	34	167	88
21	283	550	412	170	230	967	732	687	77	34	120	117
22	348	1410	356	180	250	1360	659	485	68	34	154	420
23	283	1280	356	270	300	852	909	494	62	34	310	425
24	238	1450	480	520	313	637	1350	463	58	41	179	498
25	208	1140	930	520	274	498	1920	368	56	46	115	336
26	190	750	2290	370	218	433	1290	507	52	43	91	213
27	176	595	1350	310	193	438	1100	512	76	41	71	158
28	167	476	1360	280	195	433	941	377	128	38	65	126
29	161	744	1180	240	---	540	915	310	115	40	85	105
30	154	1450	780	240	---	420	1230	530	81	50	75	90
31	150	---	570	240	---	403	---	732	---	59	274	---
TOTAL	7886	17960	22598	11286	9961	19338	30560	22957	6679	1411	4716	3828
MEAN	254	599	729	364	356	624	1019	741	223	45.5	152	128
MAX	688	1450	2290	968	1400	1360	3780	2040	786	67	512	498
MIN	112	213	213	170	193	208	403	310	52	28	44	38

CAL YR 1982 TOTAL 183773 MEAN 503 MAX 7120 MIN 36
WTR YR 1983 TOTAL 159180 MEAN 436 MAX 3780 MIN 28

04243500 ONEIDA CREEK AT ONEIDA, NY

LOCATION.--Lat 43°05'51", long 75°38'22", Oneida County, Hydrologic Unit 04140202, on right bank 70 ft upstream from bridge on Sconondoa Street at Oneida, and 500 ft downstream from Sconondoa Creek.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-78-1: 1951, 1956, 1958, 1961, 1963, 1964, 1972, 1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by small mills upstream from station.

AVERAGE DISCHARGE.--34 years, 165 ft³/s, 19.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,100 ft³/s (revised) Oct. 9, 1976, gage height, 15.01 ft; minimum, 12 ft³/s Aug. 5, 6, 1962, Oct. 28, 1964; minimum gage height, 1.30 ft Aug. 3, 6, 1955, Aug. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s Apr. 25, gage height, 10.38 ft, no other peak above base of 1,900 ft³/s; minimum, 18 ft³/s Sept. 9, gage height, 1.53 ft.

REVISIONS.--The maximum discharge for some water years have been revised, as shown in the following table. They superceed figures published in WSP 1307, WSP 1677, and reports for 1950, 1972, 1977, and 1979.

Water Year	Date	Discharge (ft³/s)	Gage height (ft)	Water Year	Date	Discharge (ft³/s)	Gage height (ft)
1950	Mar. 28, 1950	6,710	13.78	1977	Oct. 9, 1976	9,110	15.01
1972	June 22, 1972	8,230	14.61	1979	Mar. 5, 1979	7,840	14.42

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	46	93	98	170	110	157	916	180	41	62	35
2	29	53	75	94	180	115	141	1020	120	39	99	28
3	28	38	68	86	1000	115	165	1000	99	38	46	27
4	28	64	64	64	720	108	159	735	118	37	37	26
5	28	196	62	68	360	132	141	527	107	41	55	26
6	28	92	59	76	270	120	128	390	184	42	50	27
7	28	62	57	76	260	289	123	308	261	38	37	28
8	40	50	50	74	210	200	147	335	134	36	33	23
9	36	44	45	60	170	184	125	531	99	37	37	20
10	32	40	26	68	170	169	270	321	85	36	33	26
11	30	39	46	170	170	375	298	264	79	34	36	26
12	30	39	58	150	180	247	200	233	73	34	159	24
13	30	40	60	100	190	203	163	210	66	33	77	24
14	30	38	53	94	210	198	139	187	62	32	49	23
15	33	39	46	82	200	184	198	175	58	32	41	22
16	34	39	118	72	180	159	1040	205	63	33	37	22
17	40	38	100	80	200	143	791	175	110	31	35	22
18	37	38	70	86	270	132	677	155	116	31	44	24
19	34	38	68	86	220	151	451	143	74	31	40	24
20	32	38	56	86	167	175	426	187	62	30	34	33
21	34	57	50	84	187	215	442	147	55	30	30	51
22	32	78	46	86	198	276	661	134	49	38	33	113
23	30	96	46	120	212	180	966	149	45	32	37	36
24	28	85	92	500	180	160	1350	157	43	55	30	31
25	29	85	234	480	149	140	2140	130	42	48	29	28
26	30	68	308	340	110	130	1240	139	42	36	28	27
27	30	64	289	220	100	134	990	127	50	33	28	26
28	30	56	380	160	100	255	748	111	74	30	28	27
29	29	100	361	160	---	406	589	102	51	34	26	26
30	29	130	184	170	---	200	1170	128	44	42	26	25
31	29	---	100	190	---	169	---	139	---	37	44	---
TOTAL	967	1890	3364	4280	6733	5774	16235	9480	2645	1121	1380	900
MEAN	31.2	63.0	109	138	240	186	541	306	88.2	36.2	44.5	30.0
MAX	40	196	380	500	1000	406	2140	1020	261	55	159	113
MIN	28	38	26	60	100	108	123	102	42	30	26	20
CFSM	.28	.56	.97	1.22	2.12	1.65	4.79	2.71	.78	.32	.39	.27
IN.	.32	.62	1.11	1.41	2.22	1.90	5.34	3.12	.87	.37	.45	.30

CAL YR 1982 TOTAL 51765 MEAN 142 MAX 1130 MIN 25 CFSM 1.26 IN 17.04
WTR YR 1983 TOTAL 54769 MEAN 150 MAX 2140 MIN 20 CFSM 1.33 IN 18.03

04245000 LIMESTONE CREEK AT FAYETTEVILLE, N.Y.

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, Hydrologic Unit 04140202, on left bank 100 ft downstream from bridge on Genesee Street at Fayetteville, and 8 mi upstream from mouth.

DRAINAGE AREA.--85.5 mi^2, not including 14.0 mi^2 of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through DeRuyter Reservoir, and 0.8 mi^2 in closed basin.

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 954: 1941. WSP 1912: 1958 (M).

GAGE.--Water-stage recorder. Datum of gage is 427.73 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly regulated by DeRuyter Reservoir.

AVERAGE DISCHARGE.--43 years (water years 1941-83), 142 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,490 ft^3/s Oct. 28, 1981, gage height, 10.14 ft, from rating curve extended above 4,200 ft^3/s; m^3/s); minimum, 1.4 ft^3/s Aug. 19. 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,750 ft^3/s Apr. 24 at 2000 hours, gage height, 4.86 ft, no other peak above base of 1,500 ft^3/s; minimum, 16 ft^3/s many days in September, gage height, 1.41 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	43	101	123	98	104	113	674	117	38	26	21
2	31	45	89	117	117	104	104	669	92	36	38	18
3	33	38	80	110	705	101	120	684	80	34	28	17
4	31	72	80	83	524	95	120	544	86	33	23	17
5	31	199	83	86	214	101	104	393	83	34	23	18
6	31	95	83	95	179	98	98	325	86	36	28	18
7	31	65	83	90	169	113	98	267	179	38	23	18
8	33	55	75	84	150	113	123	312	95	34	21	18
9	34	49	70	70	130	113	104	539	78	34	22	17
10	33	47	56	74	110	107	221	316	70	33	22	19
11	31	45	64	155	120	175	259	259	65	31	23	19
12	31	53	62	133	130	155	175	228	62	31	29	17
13	29	60	56	83	120	130	152	206	58	31	28	17
14	29	51	60	80	110	130	130	185	55	31	23	17
15	31	47	72	76	110	117	239	175	53	29	22	16
16	33	45	210	76	120	104	669	206	51	29	21	16
17	43	45	155	74	140	95	539	169	58	29	21	16
18	36	43	78	70	189	89	490	146	110	28	21	17
19	33	43	83	70	159	98	329	139	86	28	23	18
20	31	43	82	72	142	110	312	179	62	28	21	21
21	31	55	80	70	149	120	312	139	53	28	19	26
22	31	86	78	70	152	175	360	123	49	29	21	45
23	29	104	80	100	162	117	634	136	45	28	21	25
24	29	98	130	203	139	107	1130	127	43	33	19	21
25	29	101	232	175	127	95	1350	107	40	31	18	19
26	29	80	279	139	104	89	1160	130	38	23	18	18
27	29	75	169	107	92	98	935	117	38	22	18	18
28	29	67	295	98	101	133	605	101	60	22	18	18
29	28	113	228	92	---	206	455	92	65	22	17	18
30	28	136	162	98	---	136	794	101	43	22	17	18
31	28	---	123	104	---	120	---	101	---	25	19	---
TOTAL	968	2098	3578	3077	4762	3648	12234	7889	2100	930	691	581
MEAN	31.2	69.9	115	99.3	170	118	408	254	70.0	30.0	22.3	19.4
MAX	43	199	295	203	705	206	1350	684	179	38	38	45
MIN	28	38	56	70	92	89	98	92	38	22	17	16
CFSM	.37	.82	1.35	1.16	1.99	1.38	4.77	2.97	.82	.35	.26	.23
IN.	.42	.91	1.56	1.34	2.07	1.59	5.32	3.43	.91	.40	.30	.25

CAL YR 1982 TOTAL 41841 MEAN 115 MAX 780 MIN 23 CFSM 1.35 IN 18.20
WTR YR 1983 TOTAL 42556 MEAN 117 MAX 1350 MIN 16 CFSM 1.37 IN 18.52

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, Hydrologic Unit 04140202, on left bank 15 ft downstream from bridge on Welberger Road, 125 ft downstream from tributary from Stebbins Gulf, 2.2 mi upstream from Jamesville Reservoir, and 4 mi south of Jamesville.

DRAINAGE AREA.--32.2 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 50.1 ft³/s, 21.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft³/s July 3, 1974, gage height, 7.84 ft; maximum gage height 8.46 ft Oct. 28, 1981; minimum discharge, 2.0 ft³/s Sept. 27, 1959, gage height, 2.26 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 24	2400	*1,070	*7.79	Apr. 30	0530	722	7.41

Minimum discharge, 4.2 ft³/s Aug. 28, 29, 30, gage height, 4.89 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	36	44	28	35	38	239	44	14	10	8.4
2	10	18	30	42	45	34	35	239	36	13	23	5.5
3	9.8	13	27	38	224	34	43	274	32	11	8.4	5.1
4	9.4	50	27	33	128	33	39	189	34	10	7.0	5.1
5	8.6	83	26	30	90	33	35	140	33	10	7.9	5.1
6	8.6	31	28	32	70	32	33	118	43	10	12	5.5
7	8.6	18	24	32	60	33	34	98	62	9.8	7.4	5.5
8	11	14	21	28	50	33	43	126	36	9.3	6.2	4.8
9	9.0	12	20	25	44	33	34	167	30	8.9	6.6	4.8
10	8.6	10	18	25	37	34	81	108	26	8.4	5.8	7.4
11	11	11	19	56	40	55	83	94	24	8.4	9.3	5.8
12	14	15	16	41	43	45	64	83	22	7.9	10	5.1
13	10	20	17	31	37	39	55	75	20	7.4	8.4	5.1
14	9.4	13	19	27	38	39	47	68	18	7.0	6.6	4.8
15	12	12	24	24	36	35	120	67	17	6.6	6.2	4.8
16	16	10	95	24	41	32	239	78	17	6.6	5.8	5.1
17	21	10	56	23	47	30	172	62	28	6.2	5.5	5.5
18	13	9.3	45	22	60	28	152	55	40	6.2	9.8	5.5
19	11	8.8	34	22	48	31	120	53	25	6.2	7.0	5.5
20	10	8.8	31	23	45	35	118	68	21	5.8	5.8	6.2
21	11	18	30	22	44	44	114	55	18	5.8	4.8	24
22	10	30	28	30	51	56	132	48	16	7.9	5.8	22
23	9.8	34	29	70	55	38	204	53	15	6.2	6.2	7.9
24	9.4	33	51	92	48	30	520	53	13	11	5.1	6.6
25	9.4	28	83	56	41	20	652	44	12	7.9	4.8	5.8
26	9.0	23	107	39	35	22	627	56	12	6.2	4.8	5.5
27	9.0	21	64	32	39	30	490	47	11	5.5	4.8	5.1
28	9.0	17	110	29	34	53	317	40	39	5.4	4.8	5.1
29	9.0	44	76	30	---	71	201	38	27	6.2	4.5	4.8
30	8.6	51	59	31	---	47	445	43	16	8.4	4.5	4.8
31	8.6	---	48	32	---	40	---	43	---	8.4	20	---
TOTAL	324.8	685.9	1298	1085	1558	1154	5287	2921	787	251.6	238.8	202.2
MEAN	10.5	22.9	41.9	35.0	55.6	37.2	176	94.2	26.2	8.12	7.70	6.74
MAX	21	83	110	92	224	71	652	274	62	14	23	24
MIN	8.6	8.8	16	22	28	20	33	38	11	5.4	4.5	4.8
CFSM	.33	.71	1.30	1.09	1.73	1.16	5.47	2.93	.81	.25	.24	.21
IN.	.38	.79	1.50	1.25	1.80	1.33	6.11	3.37	.91	.29	.28	.23

CAL YR 1982 TOTAL 15094.8 MEAN 41.4 MAX 283 MIN 5.9 CFSM 1.29 IN 17.44
WTR YR 1983 TOTAL 15793.3 MEAN 43.3 MAX 652 MIN 4.5 CFSM 1.35 IN 18.25

04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, NY

LOCATION.--Lat 43°02'30", long 76°06'02", Onondaga County Hydrologic Unit 04140202, on right bank 170 ft downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--2.90 mi^2.

PERIOD OF RECORD.--December 1970 to March 1973, April 1973 to September 1978 (peak discharge only), October 1978 to current year.

REVISED RECORDS.--WDR NY-75-1: 1974 (M): WDR NY-78-1: 1977 (M).

GAGE.--Water-stage recorder and artificial control. Datum of gage is 511.50 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter periods and those below 2.0 ft^3/s, which are poor. Flow includes storm sewer inflow, some originating outside the basin.

AVERAGE DISCHARGE.--6 years (water years 1972, 1979-83), 1.93 ft^3/s, 9.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft^3/s Oct. 21, 1976, gage height, 5.31 ft; maximum gage height, 6.51 ft July 3, 1974 (backwater from downstream channel conditions; Type IV flow); minimum discharge, 0.02 ft^3/s Sept. 11, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft^3/s Apr. 30 at 0145 hours, gage height, 2.78 ft, no peak above base of 100 ft^3/s; minimum daily discharge 0.14 ft^3/s Sept. 3, 4, 7-9, 12-16; minimum gage height, 1.05 ft, Sept. 13-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	2.0	.77	.65	1.1	.91	1.3	5.8	2.2	.65	1.1	.26
2	.26	1.2	.65	.65	3.3	1.1	1.2	6.6	1.5	.65	.65	.21
3	.26	.65	.65	.65	7.4	.91	1.5	4.6	1.5	.65	.65	.14
4	.38	9.4	.91	.46	2.0	.91	1.1	3.6	2.0	.65	.77	.14
5	.31	2.8	.65	.55	1.1	1.2	1.1	2.6	1.5	.77	.91	.21
6	.38	.91	1.2	.55	.91	.91	1.2	2.4	2.2	.79	.91	.17
7	.31	.65	.77	.65	.80	1.3	1.8	2.2	1.8	.65	.65	.14
8	.65	.55	.65	.65	.60	1.5	1.3	8.4	1.5	.65	1.3	.14
9	.38	.55	.65	.46	.50	1.3	1.0	4.7	1.5	1.1	.91	.14
10	.31	.55	.65	.91	.50	2.3	11	2.7	1.3	.77	.38	.77
11	1.1	.65	.65	2.3	.60	3.9	2.1	2.5	1.3	.55	2.3	.17
12	.65	1.5	.65	.77	.70	2.0	1.5	2.5	1.3	.55	1.1	.14
13	.46	1.3	.65	.55	.70	1.9	1.3	2.0	1.3	.55	.38	.14
14	.46	.55	.65	.55	.77	1.9	1.3	2.2	1.3	.55	.31	.14
15	.65	.55	1.3	.50	.65	1.9	8.5	3.5	1.5	.55	.31	.14
16	1.1	.46	3.5	.50	1.2	1.8	10	3.1	1.9	.55	.31	.14
17	1.1	.46	1.1	.44	1.6	1.8	3.2	2.5	6.3	.55	.26	.46
18	.55	.46	.77	.43	1.1	1.9	2.0	2.3	3.1	.77	1.2	.26
19	.46	.46	.77	.42	.91	2.4	2.0	3.5	1.6	.91	.38	5.3
20	.46	.55	.91	.41	.91	2.3	3.3	3.3	1.5	.77	.26	4.7
21	.65	4.1	.91	.40	.91	5.8	5.2	2.2	1.5	.77	.21	10
22	.65	2.5	.91	.46	1.1	1.9	8.3	2.3	1.5	.65	.55	1.3
23	.55	2.3	.91	2.2	1.2	1.3	7.3	2.5	1.3	.65	.31	.41
24	.46	1.9	3.5	2.2	1.2	1.1	10	2.0	1.2	.77	.26	.34
25	.46	.91	2.5	1.9	1.1	1.0	12	1.9	1.1	.55	.26	.31
26	.55	.91	2.3	1.5	1.1	1.1	6.3	4.1	.91	.38	.26	.31
27	.46	.77	1.8	.91	1.1	1.5	3.2	1.9	.91	.38	.21	.31
28	.55	1.3	3.9	.77	1.1	2.3	3.2	1.8	5.6	.38	.21	.31
29	.55	2.3	1.1	.77	---	2.0	4.3	1.9	.91	1.5	.21	.32
30	.55	1.2	.77	1.3	---	1.3	20	3.9	.77	.91	.31	.31
31	.65	---	.65	1.6	---	1.3	---	2.8	---	2.0	.46	---
TOTAL	16.62	44.39	37.75	27.06	36.16	54.74	137.5	98.3	53.80	22.57	18.29	27.83
MEAN	.54	1.48	1.22	.87	1.29	1.77	4.58	3.17	1.79	.73	.59	.93
MAX	1.1	9.4	3.9	2.3	7.4	5.8	20	8.4	6.3	2.0	2.3	10
MIN	.26	.46	.65	.40	.50	.91	1.0	1.8	.77	.38	.21	.14
CFSM	.19	.51	.42	.30	.45	.61	1.58	1.09	.62	.25	.20	.32
IN.	.21	.57	.48	.35	.46	.70	1.76	1.26	.69	.29	.23	.36

CAL YR 1982 TOTAL 600.14 MEAN 1.64 MAX 32 MIN .11 CFSM .57 IN 7.70
WTR YR 1983 TOTAL 575.01 MEAN 1.58 MAX 20 MIN .14 CFSM .55 IN 7.37

04246000 ONEIDA LAKE AT BREWERTON, NY

LOCATION.--Lat 43°14'25", long 76°08'30", Onondaga County, Hydrologic Unit 04140202, at west end of Oneida Lake, 100 ft west of bridge on U.S. Highway 11, at Brewerton.

DRAINAGE AREA.--1,382 mi², at dam at Caughdenoy.

PERIOD OF RECORD.--November 1951 to current year. April 1904 to September 1925 in reports of State Engineer and Surveyor, published as "Oneida River at Brewerton."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (1.01 ft Barge Canal datum). November 1951 to September 1975, at datum 360.99 ft higher.

REMARKS.--Elevation of lake surface regulated by taintor-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume at elevation 368 ft NGVD, 49,600 mil ft³. Area of water surface, 79.8 mi²; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 372.83 ft June 26, 1972; minimum daily, 366.41 ft Feb. 18, 19, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1936, reached a water surface elevation of 373.5 ft, from Corps of Engineers report "Flood Plain Information, Oneida Creek, New York."

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 371.67 ft May 2; minimum, 367.36 ft Feb. 2.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369.77	369.33	369.25	368.31	367.39	367.46	369.27	371.10	369.75	369.66	369.72	369.57
2	369.71	369.39	369.18	368.24	367.43	367.41	369.43	371.18	369.73	369.63	369.67	369.57
3	369.72	369.42	369.13	368.15	367.49	367.40	369.71	371.25	369.75	369.69	369.72	369.55
4	369.59	369.45	368.99	368.21	367.72	367.41	369.48	371.22	369.66	369.70	369.70	369.54
5	369.57	369.49	369.00	368.11	367.88	367.43	369.56	371.21	369.60	369.64	369.64	369.53
6	369.51	369.56	368.79	368.04	367.94	367.44	369.66	371.16	369.49	369.61	369.56	369.50
7	369.52	369.64	368.71	367.98	367.95	367.58	369.78	371.07	369.45	369.60	369.48	369.40
8	369.43	369.65	368.71	367.90	367.95	367.77	369.79	370.90	369.46	369.59	369.42	369.40
9	369.40	369.68	368.58	367.93	367.93	367.63	369.94	370.78	369.53	369.57	369.42	369.42
10	369.44	369.73	368.59	367.93	367.90	367.54	370.15	370.76	369.52	369.57	369.43	369.41
11	369.41	369.77	368.35	367.80	367.85	367.56	370.08	370.72	369.46	369.59	369.55	369.35
12	369.27	369.73	368.31	367.77	367.80	367.54	370.00	370.60	369.46	369.57	369.53	369.35
13	369.25	369.58	368.24	367.83	367.76	367.56	370.00	370.46	369.44	369.51	369.56	369.33
14	369.21	369.76	368.15	367.80	367.70	367.70	369.99	370.37	369.42	369.54	369.58	369.27
15	369.11	369.58	368.09	367.77	367.65	367.70	369.77	370.18	369.45	369.55	369.60	369.28
16	369.16	369.70	368.02	367.72	367.63	367.82	369.95	370.06	369.47	369.53	369.60	369.32
17	369.17	369.66	368.09	367.69	367.59	367.94	370.21	369.95	369.49	369.55	369.61	369.19
18	369.25	369.70	368.28	367.65	367.57	368.23	370.28	369.87	369.52	369.54	369.62	369.20
19	369.29	369.71	368.31	367.60	367.58	368.18	370.27	369.86	369.54	369.56	369.65	369.16
20	369.30	369.67	368.06	367.55	367.58	367.99	370.23	369.68	369.57	369.53	369.56	369.25
21	369.10	369.59	367.92	367.50	367.57	368.38	370.31	369.63	369.59	369.52	369.63	369.24
22	369.21	369.59	367.93	367.46	367.57	368.20	370.33	369.61	369.59	369.48	369.69	369.25
23	369.20	369.65	367.97	367.44	367.57	368.30	370.37	369.50	369.59	369.54	369.64	369.29
24	369.22	369.44	367.91	367.44	367.57	368.58	370.41	369.38	369.54	369.53	369.64	369.33
25	369.22	369.51	367.91	367.46	367.56	368.64	370.56	369.42	369.53	369.56	369.66	369.38
26	369.18	369.49	367.88	367.48	367.54	368.74	370.81	369.45	369.59	369.55	369.61	369.37
27	369.22	369.37	368.20	367.50	367.52	369.08	370.97	369.51	369.57	369.57	369.60	369.35
28	369.26	369.42	368.27	367.49	367.49	368.94	370.99	369.57	369.65	369.56	369.58	369.39
29	369.28	369.26	368.24	367.46	---	368.89	370.96	369.66	369.63	369.58	369.57	369.40
30	369.26	369.23	368.28	367.45	---	369.11	371.07	369.65	369.67	369.58	369.57	369.40
31	369.29	---	368.40	367.41	---	369.23	---	369.71	---	369.67	369.57	---
MEAN	369.34	369.56	368.38	367.74	367.67	368.04	370.14	370.24	369.56	369.58	369.59	369.37
MAX	369.77	369.77	369.25	368.31	367.95	369.23	371.07	371.25	369.75	369.70	369.72	369.57
MIN	369.10	369.23	367.88	367.41	367.39	367.40	369.27	369.38	369.42	369.48	369.42	369.16

CAL YR 1982	MEAN 369.07	MAX 370.72	MIN 366.92
WTR YR 1983	MEAN 369.11	MAX 371.25	MIN 367.39

04246500 ONEIDA RIVER AT CAUGHDENOY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi downstream from Oneida Lake, and 2.6 mi upstream from navigation dam at Caughdenoy.

DRAINAGE AREA.--1,382 mi²; 1902-9, 1,439 mi².

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1909 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 360.98 ft National Geodetic Vertical Datum of 1929 (362.00 ft Barge Canal datum). Prior to June 5, 1907, headwater readings, and June 5, 1907 to Dec. 31, 1909, nonrecording gage readings at former Oak Orchard State Dam 5.5 mi downstream at different datum. Jan. 1, 1910 to Dec. 31, 1912, nonrecording gage at site 2.5 mi downstream from present site at different datum. From Oct. 9, 1947 to Nov. 7, 1951, waterstage recorder at site 2.5 mi downstream at present datum.

Auxiliary gage: Water-stage recorder at site 2.5 mi downstream, 350 ft upstream from navigation dam at present datum (base gage site 1947-51).

Supplementary gage: Water-stage recorder at site 2.6 mi downstream, 180 ft downstream from navigation dam at present datum.

REMARKS.--Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947 to current year: Record represents total discharge at Caughdenoy, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi² of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below lock 23, furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--46 years (water years 1903-12, 1948-83), 2,551 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,800 ft³/s Mar. 25-27, 1903; minimum daily, 52 ft³/s Oct. 24, 1910.

1947 to current year: Maximum daily discharge, 10,100 ft³/s June 25, 1972; minimum daily, 62 ft³/s July 29, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,390 ft³/s May 3; minimum daily, 178 ft³/s Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1600	217	4450	3250	2060	2150	338	7190	2060	264	569	687
2	1950	233	4370	3160	2140	2080	334	7300	2900	264	968	678
3	1860	250	4320	3030	2190	2070	357	7390	3740	267	957	700
4	1900	243	4130	3100	2470	2100	232	7330	4280	269	1770	659
5	1880	593	4160	2980	2670	2120	184	7300	4250	418	2290	688
6	1820	894	3900	2890	2770	2150	178	7200	4160	676	2290	670
7	1880	868	3810	2800	2780	2310	179	7060	2400	673	2270	677
8	1880	871	3820	2710	2770	2570	180	6800	1460	528	1090	665
9	1880	860	3630	2760	2750	2370	180	6630	1500	305	266	674
10	1900	870	3650	2780	2700	2250	321	6560	1540	291	225	680
11	1870	867	3310	2580	2650	2280	4740	6490	1560	247	223	684
12	1120	846	3260	2540	2560	2230	5420	6290	1560	255	233	657
13	599	846	3170	2610	2520	2260	5710	6090	1550	270	250	658
14	608	847	3050	2590	2460	1270	5730	5980	858	295	257	649
15	609	1370	2970	2550	2390	318	5360	5730	422	277	242	648
16	607	1890	2870	2470	2380	326	5490	5550	393	255	244	638
17	609	1890	2950	2440	2310	313	5810	5410	367	271	244	648
18	606	1870	3230	2380	2280	282	5930	5300	371	269	250	652
19	618	1870	3270	2320	2300	254	5900	5280	336	270	319	629
20	631	1850	2930	2260	2300	244	5840	5030	318	252	323	535
21	618	1850	2730	2190	2280	243	6010	4950	328	266	284	318
22	637	2610	2750	2140	2290	241	6070	4910	350	264	391	250
23	619	3310	2820	2140	2280	237	6180	4360	348	286	663	256
24	628	3820	2730	2120	2290	239	6290	3920	325	295	666	240
25	614	4670	2730	2140	2270	241	6560	2260	289	257	672	250
26	498	4640	2680	2180	2240	243	6860	1080	230	279	664	221
27	231	4530	3110	2200	2220	255	7050	935	204	277	679	234
28	214	4570	3210	2190	2190	257	7070	938	260	261	686	245
29	227	4400	3160	2160	---	297	6990	921	308	268	656	220
30	216	4410	3220	2140	---	277	7150	933	305	286	652	211
31	217	---	3390	2090	---	294	---	925	---	288	678	---
TOTAL	31146	58855	103780	77890	67510	34771	124643	154042	38972	9643	21971	15621
MEAN	1005	1962	3348	2513	2411	1122	4155	4969	1299	311	709	521
MAX	1950	4670	4450	3250	2780	2570	7150	7390	4280	676	2290	700
MIN	214	217	2680	2090	2060	237	178	921	204	247	223	211

CAL YR 1982 TOTAL 807959 MEAN 2214 MAX 7050 MIN 193
WTR YR 1983 TOTAL 738844 MEAN 2024 MAX 7390 MIN 178

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, Hydrologic Unit 04140203, on right bank at New York State Barge Canal (Oswego Canal) lock 7 in Oswego, 0.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5,100 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto." January 1904 to April 1906, published as "at Battle Island." Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928, published in WSP 644, have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NY 78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.00 ft Barge Canal datum. Prior to 1933, nonrecording gage at site about 6 mi upstream at different datum.

REMARKS.--Records good. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through summit levels of Erie (Barge) Canal between New London and Utica. During part of year entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Nearly all of flow from 14 mi^2 of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of lockages at lock 7 furnished by New York State Department of Transportation, record of elevations of Lake Ontario by Corps of Engineers, daily discharge records for Oswego River High Dam upstream by Niagara Mohawk Power Corp.

AVERAGE DISCHARGE.--50 years (1933-1983), 6,692 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft^3/s Mar. 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft Apr. 10, 1940; minimum discharge (river only), 30 ft^3/s Nov. 6, 1944; minimum daily, 274 ft^3/s Oct. 10, 1969; minimum gage height, 0.97 ft Aug. 24, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 26,100 ft^3/s May 3; maximum gage height, 10.73 ft May 3; minimum daily discharge, 941 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2520	1670	7960	8080	4800	4850	3200	25000	7850	1410	1480	1860
2	3220	1960	8550	7760	5000	4210	3310	25400	8940	1360	2440	1490
3	3040	2050	8100	7150	6300	4630	3420	26100	9370	1420	2600	1800
4	3020	2090	7530	6120	8730	4780	3180	25900	9230	1550	2290	1490
5	2940	3260	7850	6090	9200	4700	2880	25300	8400	1800	3030	1620
6	2900	4680	8130	5000	8460	4560	2760	24400	7120	1810	3240	1630
7	3180	4120	7760	6230	7990	4300	2760	23600	6670	1510	3200	1420
8	2960	3400	7650	6740	6930	4830	2880	22500	4030	1550	2560	1520
9	2980	3070	7530	6560	6090	4950	2740	22000	3470	1580	1460	1360
10	3090	3240	7700	6610	5710	4120	2960	21300	3510	1740	1240	1670
11	3130	3560	7390	6770	5520	4580	6150	20600	3330	1340	1280	1950
12	2640	3260	7010	6800	5470	4650	9660	19800	3020	1460	1880	1270
13	1360	3110	7070	6670	5310	4650	10200	18900	2880	1380	1520	1570
14	1850	3490	6850	6610	5260	4070	10200	18200	2020	1490	1360	1330
15	1900	3070	5840	6350	5050	2960	11700	17400	1770	1490	1580	1540
16	1910	3350	6820	5260	4880	2820	15300	16900	1860	1300	1470	1420
17	1860	3700	8130	6090	5130	2980	16300	16600	1880	1360	1460	1280
18	1950	4320	7730	5520	4900	2580	17000	16200	2050	1480	1360	1470
19	1910	4030	7620	5100	5000	2310	17000	15900	2050	1520	1970	1780
20	2050	3610	6960	5470	5680	2400	17000	15500	1580	1420	1920	1700
21	2000	3540	6690	4900	5730	2680	18200	15000	1910	1360	1480	1970
22	2700	5000	6560	5330	5600	3110	19100	14100	2030	1380	1510	2610
23	2580	6380	6460	5030	5440	3770	20000	13400	1960	1380	1370	1230
24	2270	6530	6530	5150	5540	4630	21000	12500	1800	1440	1400	1250
25	1670	7510	6930	5330	5200	4390	23200	10700	1950	1470	1680	967
26	1810	8640	7650	5490	5100	4140	25200	7670	2090	1570	1620	1120
27	1730	8310	7930	5200	5050	4050	25600	6250	1420	1420	1670	1120
28	1440	8130	9280	5390	4900	3330	25400	6610	1230	1270	1650	1400
29	1750	8080	9640	5080	---	3200	24900	6610	1680	1240	1720	1240
30	1630	7930	8880	4780	---	4300	24800	6690	1960	1290	1370	941
31	1700	---	8100	4830	---	3810	---	7090	---	1290	1680	---
TOTAL	71690	135090	234830	183490	163970	121340	388000	524120	109060	45080	56490	45018
MEAN	2313	4503	7575	5919	5856	3914	12930	16910	3635	1454	1822	1501
MAX	3220	8640	9640	8080	9200	4950	25600	26100	9370	1810	3240	2610
MIN	1360	1670	5840	4780	4800	2310	2740	6250	1230	1240	1240	941

CAL YR 1982 TOTAL 2109350 MEAN 5779 MAX 19800 MIN 1330
WTR YR 1983 TOTAL 2078178 MEAN 5694 MAX 26100 MIN 941

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1964-66, 1971 to current year.
CHEMICAL DATA: 1957 (a), 1958-60 (a) unpublished, 1964 (b), 1965 (c), 1966 (a), 1971-72 (a), 1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983(b).
MINOR ELEMENTS DATA: 1971-1973 (a), 1975 (b), 1976 (a), 1977-83 (b).
ORGANIC DATA: OC--1975 (b), 1978-81 (d).
NUTRIENT DATA: 1971 (a), 1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983(b).
BIOLOGICAL DATA:
Bacteria--1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983(b).
Phytoplankton--1974 (a), 1975 (c), 1976 (d), 1977-81 (c).
Periphyton--1975-80 (a).
SEDIMENT DATA: 1974 (a), 1975 (c), 1976 (d), 1977 (b), 1978-79 (c), 1980-81 (d), 1982 (c), 1983(b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1975 to September 1981.
WATER TEMPERATURES: July 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1975-78, 1981): Maximum recorded, 2,290 micromhos Oct. 25,1980; minimum recorded, 430 micromhos Apr. 19, 1976.
WATER TEMPERATURES (water years 1975-78, 1981): Minimum, freezing point on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 to SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV										
15...	1200	4370	1070	7.7	7.5	3.6	770	13.1	108	K760
FEB										
23...	1030	5080	832	7.9	2.0	1.5	755	11.2	82	250
JUL										
08...	0830	1490	1360	7.4	25.0	3.6	770	8.6	103	550
AUG										
16...	1415	1630	1430	7.6	26.5	3.4	765	--	--	84

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
NOV										
15...	590	310	197	100	14	83	2.9	112	80	220
FEB										
23...	140	270	148	83	14	63	2.4	118	74	140
JUL										
08...	490	370	254	120	17	110	3.5	117	98	290
AUG										
16...	110	390	297	130	15	130	3.5	91	91	350

K results based on colony count outside the ideal range (non-ideal colony count).

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 to SEPTEMBER 1983

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 15...	.20	.4	685	569	.52	.180	.70	.080	.030	.030
FEB 23...	.10	1.6	555	450	.85	.250	.70	.060	.050	.030
JUL 08...	.20	<.01	897	709	.29	.340	1.10	.070	.030	<.010
AUG 16...	.20	.04	962	776	.20	.110	1.10	.110	.040	<.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 15...	20	1	60	<1	<1	<1	<3	--	5	--
FEB 23...	30	1	53	<1	1	<1	<3	4	7	11
JUL 08...	<10	1	84	<1	<1	<1	<3	3	6	2
AUG 16...	60	1	78	<1	<1	<1	<3	7	11	5

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 15...	21	4	2.2	20	--	<1	<1	880	<6.0	<4
FEB 23...	10	14	.6	<10	8	<1	<1	720	<6.0	8
JUL 08...	23	1	<.1	<10	2	<1	<1	1000	<6.0	7
AUG 16...	26	4	.1	<10	2	<1	<1	990	<6.0	10

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 to SEPTEMBER 1983

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV								
15...	1205	30	12.0	3.0	1080	7.7	7.5	12.9
15...	1210	30	12.0	10.0	1080	7.8	7.5	12.8
15...	1215	100	12.0	3.0	1080	7.8	7.5	12.8
15...	1220	100	12.0	10.0	1080	7.8	7.5	12.9
15...	1225	200	12.0	3.0	1070	7.7	8.0	13.4
15...	1230	200	12.0	10.0	1070	7.7	7.5	13.0
15...	1235	300	6.0	3.0	1070	7.7	8.0	13.4
FEB								
23...	1035	30	12.0	3.0	833	7.9	2.0	11.5
23...	1040	30	12.0	10.0	833	7.9	2.0	11.1
23...	1045	100	12.0	3.0	832	7.9	2.0	11.1
23...	1050	100	12.0	10.0	832	7.8	2.0	11.1
23...	1055	200	12.0	3.0	832	7.9	2.0	11.2
23...	1100	200	12.0	10.0	831	7.8	2.0	11.2
23...	1105	300	6.0	3.0	832	7.9	2.5	11.3
JUL								
08...	0835	30	9.0	3.0	1360	7.4	25.0	8.5
08...	0840	30	9.0	7.0	1360	7.5	25.0	8.6
08...	0845	100	10.0	3.0	1360	7.4	25.0	8.6
08...	0850	100	10.0	7.0	1360	7.4	25.0	8.6
08...	0855	200	9.0	3.0	1360	7.4	25.0	8.7
08...	0900	200	9.0	7.0	1360	7.4	25.0	8.7
08...	0905	300	2.0	1.0	1340	7.3	23.5	9.7
AUG								
16...	1420	30	9.5	3.0	1410	--	23.5	--
16...	1425	100	10.0	3.0	1410	--	23.5	--
16...	1430	200	9.0	3.0	1420	--	23.5	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV				
15...	1200	4370	8	94
FEB				
23...	1030	5080	1	14
JUL				
08...	0830	1490	10	40
AUG				
16...	1415	1630	13	57

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

04221990 RUSHFORD LAKE AT CANEADEA DAM, NY.--Lat 42°22'49", long 78°11'00", Allegany County, Hydrologic Unit 04130002, at Caneadea Dam, 2.4 mi (3.9 km) upstream from Caneadea Creek mouth.

Lake is formed by Caneadea Dam completed in 1928 with capacity of 1,104,000 ft^3 (31,625 m^3) and is used for power generation (see station 04221991 for monthly mean discharges).

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04227980 CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).

04228845 HONEOYE LAKE NEAR HONEOYE, NY (see station for daily mean elevation).

04232400 SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).

04232450 KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, NY (see station for daily mean elevation).

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY (see station for daily mean elevation).

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY (see station for daily mean elevation).

04235396 OWASCO LAKE NEAR AUBURN, NY (see station for daily elevation).

04236000 SKANEATELES LAKE AT SKEATELES, NY (see station for daily elevation).

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04240495 ONONDAGA LAKE AT LIVERPOOL, NY (see station for daily mean elevation).

04246000 ONEIDA LAKE AT BREWERTON, NY (see station for daily mean elevation).

04249010 LAKE ONTARIO AT OSWEGO, NY

LOCATION.--Lat 43°27'51", long 76°30'42" Oswego County, Hydrologic Unit 04150200, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

DRAINAGE AREA.--295,800 mi².

PERIOD OF RECORD.--January 1860 to current year. Records prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 248.96 ft June 6, 1952; minimum observed, 240.94 ft Dec. 23, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 246.47 ft June 6; minimum, 243.67 ft Oct. 31.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244.42	243.89	243.94	244.22	244.56	244.76	244.87	245.50	246.28	245.76	245.46	245.18
2	244.33	243.94	243.93	244.28	244.47	244.81	244.76	245.55	246.29	245.79	245.50	245.14
3	244.30	243.96	243.93	244.33	244.70	244.79	244.80	245.64	246.26	245.74	245.45	245.10
4	244.35	244.03	244.03	244.14	244.87	244.66	244.88	245.70	246.28	245.75	245.43	245.07
5	244.30	244.19	243.97	244.16	244.73	244.69	244.89	245.78	246.25	245.84	245.42	245.05
6	244.29	244.18	244.07	244.21	244.65	244.62	244.88	245.75	246.27	245.85	245.42	245.05
7	244.26	244.07	244.12	244.28	244.74	244.62	244.86	245.73	246.28	245.82	245.40	245.17
8	244.33	244.10	244.06	244.33	244.87	244.60	244.94	245.88	246.30	245.77	245.41	245.13
9	244.30	244.10	244.08	244.19	244.81	244.69	244.86	245.97	246.23	245.75	245.48	245.06
10	244.15	243.98	243.93	244.11	244.73	244.76	244.90	245.91	246.23	245.71	245.39	245.05
11	244.11	243.90	244.06	244.32	244.71	244.83	245.01	245.92	246.23	245.67	245.30	245.07
12	244.18	244.01	244.02	244.46	244.77	244.86	245.04	245.94	246.19	245.66	245.28	245.03
13	244.17	244.21	243.91	244.36	244.71	244.82	244.96	245.99	246.18	245.71	245.22	244.91
14	244.24	244.02	243.88	244.30	244.73	244.73	244.85	245.97	246.17	245.66	245.19	244.84
15	244.36	244.17	243.86	244.38	244.80	244.79	245.03	246.09	246.14	245.66	245.19	244.80
16	244.37	243.98	244.04	244.51	244.73	244.74	245.14	246.09	246.12	245.64	245.16	244.63
17	244.29	243.99	244.00	244.54	244.80	244.66	245.15	246.09	246.11	245.56	245.16	244.78
18	244.15	243.93	243.84	244.54	244.81	244.64	245.20	246.07	246.11	245.60	245.23	244.65
19	244.10	243.88	243.84	244.53	244.80	244.76	245.28	245.99	246.09	245.53	245.25	244.68
20	244.08	243.83	243.99	244.44	244.76	244.89	245.35	246.16	246.04	245.51	245.33	244.63
21	244.28	243.94	244.09	244.42	244.79	244.78	245.28	246.18	246.01	245.51	245.25	244.76
22	244.14	243.97	243.98	244.36	244.75	244.98	245.27	246.15	245.97	245.53	245.21	244.85
23	244.14	243.94	243.91	244.38	244.86	245.04	245.30	246.21	245.97	245.48	245.23	244.87
24	244.03	244.20	243.93	244.53	244.85	244.88	245.38	246.25	245.99	245.50	245.16	244.79
25	244.01	244.06	243.97	244.60	244.84	244.84	245.43	246.23	245.96	245.44	245.13	244.70
26	243.99	244.03	244.18	244.53	244.83	244.80	245.41	246.28	245.90	245.40	245.11	244.67
27	243.95	244.02	244.05	244.51	244.77	244.70	245.39	246.28	245.93	245.36	245.07	244.68
28	243.91	243.87	244.13	244.48	244.74	244.87	245.38	246.26	245.84	245.32	245.09	244.62
29	243.87	244.02	244.30	244.49	---	245.00	245.43	246.20	245.81	245.34	245.10	244.58
30	243.90	243.98	244.26	244.49	---	244.89	245.47	246.26	245.74	245.40	245.17	244.56
31	243.84	---	244.18	244.62	---	244.85	---	246.26	---	245.41	245.21	---
MEAN	244.17	244.02	244.02	244.39	244.76	244.79	245.11	246.01	246.11	245.60	245.27	244.87
MAX	244.42	244.21	244.30	244.62	244.87	245.04	245.47	246.28	246.30	245.85	245.50	245.18
MIN	243.84	243.83	243.84	244.11	244.47	244.60	244.76	245.50	245.74	245.32	245.07	244.56

CAL YR 1982 MEAN 244.74 MAX 245.90 MIN 243.83
WTR YR 1983 MEAN 244.93 MAX 246.30 MIN 243.83

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partialrecord station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1983

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Susquehanna River basin					
01496370	Mink Creek at Richfield Springs, NY	Lat 42°50'55", long 75°00'10", Otsego County, Hydrologic Unit 02050101, at bridge on State Highway 28, 0.4 mi southwest of Richfield Springs and 1 mi up, stream from mouth.	10.4	1969-83	4-16-83	4.22	378
01497805	Little Elk Creek near Westford, NY	Lat 42°38'01", long 74°47'45", Otsego County, Hydrologic Unit 02050101, at culvert on Greenbush Road, 1.2 mi south of Westford, and 2.2 mi upstream from mouth.	3.73	1978-83	5- 2-83	16.61	104
01501015	Mill Brook at New Berlin, NY	Lat 42°37'32", long 75°19'43", Chenango County, Hydrologic Unit 02050101, at bridge on Academy Street at New Berlin, and 80 ft upstream from mouth.	4.64	1975-80*, 1981-83	2-11-83 4-16-83	b2.99 2.05	- 210
01501140	Wharton Creek tributary near Edmeston, NY	Lat 42°42'35", long 75°13'19", Otsego County, Hydrologic Unit 02050101, at culvert on town road, 1.1 mi upstream from mouth, and 1.4 mi northeast of Edmeston.	2.02	1976-83	4-25-83	3.13	112
01502701	Susquehanna River at Afton, NY	Lat 42°13'38", long 75°31'27", Chenango County, Hydrologic Unit 02050101, on right bank at downstream side of bridge on State Highway 41, 0.1 mi southeast of Afton and intersection of State Highways 7 and 41, and 0.2 mi downstream from Kelsey Brook.	1,716	1972,77, 1979-83	4-26-83	13.43	24,200
01502714	Ouaquaga Creek near Belden, NY	Lat 42°10'12", long 75°40'45", Broome County, Hydrologic Unit 02050101, at culvert on Kane Road, 2.3 mi south of Belden, 2.8 mi (4.5 km) west of Harpursville, and 4.5 mi upstream from mouth.	3.37	1975-83	4-15-83	4.65	347

* Operated as a continuous-record gaging station.
b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Susquehanna River basin--Continued					
01503960	Electric Light Stream near Morrisville, NY	Lat 42°52'51", long 75°38'37", Madison County, Hydrologic Unit 02050102, at bridge on Eaton-Morrisville Road, in Eagleville, 0.4 mi upstream from mouth, and 1.3 mi south of Morrisville.	7.21	1976-83	2- 3-83 4-25-83	b10.20 9.91	- 255
01503980	Chenango River at Eaton, NY	Lat 42°51'02", long 75°36'21", Madison County, Hydrologic Unit 02050102, at bridge on Landon Road at Eaton, 0.1 mi upstream from Eaton Brook, and 0.1 mi downstream from State Highway 26.	24.3	1964-65, 1967-83	4-25-83	7.21	730
01505017	Cold Brook near North Norwich, NY	Lat 42°36'30", long 75°32'16", Chenango County, Hydrologic Unit 02050102, at culvert on town road, 0.4 mi west of railroad tracks, 0.8 mi southwest of North Norwich, and 1.8 mi upstream from mouth.	5.80	1980-83	5- 2-83	20.12	122
01507000	Chenango River at Greene, NY	Lat 42°19'28", long 75°46'18", Chenango County, Hydrologic Unit 02050102, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mi downstream from Birdsall Creek.	593	1937-70*, 1971-83	5- 2-83	12.11	8,240
01508946	Otter Creek tributary at State Highway 222 near Cortland, NY	Lat 42°35'22", long 76°14'01", Cortland County, Hydrologic Unit 02050102, at culvert on State Highway 222, 1.0 mi upstream from mouth, and 1.8 mi west of Cortland.	2.85	1976-83	4-25-83	10.25	20
01510610	Merril Creek tributary near Texas Valley, NY	Lat 42°28'03", long 75°59'19", Cortland County, Hydrologic Unit 02050102, at bridge on town road, 0.3 mi upstream from mouth, and 1.4 mi southwest of Texas Valley.	5.32	1976-81, 1983	4-25-83	0.98	265
01511500	Tioughnioga River at Itaska, NY	Lat 42°17'53", long 75°54'33", Broome County, Hydrologic Unit 02050102, on right bank at Itaska, 3.8 mi downstream from Otselic River and village of Whitney Point, and 6 mi upstream from mouth.	730	1930-67*, 1968-83	4-30-83	6.83	7,680
01513500	Susquehanna River at Vestal, NY	Lat 42°05'27", long 76°03'23", Broome County, Hydrologic Unit 02050103, on left bank 400 ft downstream from highway bridge at Vestal,and 800 ft upstream from Choconut Creek.	3,941	1936, 1937-67*, 1968-72, 1974-83	4-16-83	20.51	53,000
01513712	Nanticoke Creek tributary at Nanticoke, NY	Lat 42°16'40", long 76°02'51", Broome County, Hydrologic Unit 02050103, at culvert on Rabbit Road, 0.4 mi northeast of Nanticoke, and 0.6 mi upstream from mouth.	1.70	1975-83	5- 2-83	4.85	251
01514000	Owego Creek near Owego, NY	Lat 42°07'45", long 76°16'15", Tioga County, Hydrologic Unit 02050103, on right bank of right channel 300 ft upstream from bridge on State Highway 96, 0.5 mi upstream from Catatonk Creek, and 1.5 mi north of Owego.	185	1930-78*, 1979-83	2-21-81 10-28-81 4-16-83	6.71R 8.75R 7.12	4,540R 7,360R 5,050

* Operated as a continuous-record gaging station.
R Revised.
b Ice Jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³ /s)
		Susquehanna River basin--Continued					
01521596	Big Creek near Howard, NY	Lat 42°22'01", long 77°34'33", Steuben County, Hydrologic Unit 02050104, at culvert on town road, 0.1 mi south of State Highway 70, 1.3 mi north of Butch Corner, 3.4 mi west of Howard, and 6.2 mi upstream from mouth.	6.32	1977-83	12- 5-82	<13.90	<50
01525500	Canisteo River at West Cameron, NY	Lat 42°13'20", long 77°25'05", Steuben County, Hydrologic Unit 02050104, on right bank 250 ft downstream from bridge on County Highway 119, 0.3 mi southeast of West Cameron, and 1.7 mi north of Cameron.	340	1930-31*, 1937-70*, 1971-72, 1974-83	6-28-83	9.15	3,550
01527000	Cohocton River at Cohocton, NY	Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft downstream from small tributary, and 1.4 mi upstream from Reynolds Creek.	52.2	1951-81*, 1983	4-28-83	4.10	242
01530301	Cuthrie Run near Big Flats, NY	Lat 42°10'43", long 75°55'32", Chemung County, Hydrologic Unit 02050105, at culvert on Breed Hollow Road, 0.9 mi north of intersection of Eacher Hollow Road and Breed Hollow Road, 2.3 mi north of State Highway 17, and 3.0 mi north of Big Flats.	5.39	1976, 1979-81, 1983	4-16-83	13.75	59
		Allegheny River basin					
03010734	Ischua Creek tributary near Machias, NY	Lat 42°24'28", long 78°33'33", Cattaraugus County, Hydrologic Unit 05010001, at culvert on Very Road, 0.2 mi upstream from mouth, 0.7 mi north of State Highway 242, and 1.5 mi west of Machias.	5.12	1978-81, 1983	12-25-82	8.71	425
03010743	Johnson Creek near Franklinville, NY	Lat 42°22'37", long 78°26'37", Cattaraugus County, Hydrologic Unit 05010001, at culvert on Pigeon Hill Road, 0.2 mi north of State Highway 98, 1.7 mi upstream from mouth, and 2.5 mi north of Franklinville.	5.25	1977-78, 1982-83	11- 3-82	<12.94	<47
03010800	Olean Creek near Olean, NY	Lat 42°07'12", long 78°25'12", Cattaraugus County, Hydrologic Unit 05010001, on right bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 mi northeast of Olean, and 4.6 mi upstream from mouth.	198	1958-68*, 1969-83	12-26-82	7.91	1,930
03011000	Great Valley Creek near Salamanca, NY	Lat 42°10'28", long 78°41'28", Cattaraugus County, Hydrologic Unit 05010001, at bridge on old State Highway 98, 275 ft upstream from bridge on U. S. Highway 219, 1.5 mi northeast of Salamanca, and 2.1 mi upstream from mouth.	137	1951-68*, 1972, 1977-83	12-25-82	14.27	4,200

* Operated as a continuous-record gaging station.
< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Allegheny River basin--Continued					
03013800	Ball Creek at Stow, NY	Lat 42°09'13", long 79°24'27", Chautauqua County, Hydrologic Unit 05010002, on left bank 75 ft upstream from bridge on State Highway 394 at Stowe, and 0.4 mi upstream from mouth.	9.06	1955-64§, 1965, 1967-68#, 1974*, 1975-83	8- 6-83	18.08	1,150
		Streams tributary to Lake Erie					
04213399	Walnut Creek tributary near Forestville. NY	Lat 42°28'12", long 79°08'07", Chautauqua County, Hydrologic Unit 04120101, at culvert on Quarry Road, 1.6 mi east of Forestville and 2.3 mi upstream from mouth.	1.02	1979, 1981-83	12-25-82	11.86	51
04213490	South Branch Cattaraugus Creek near Otto, NY	Lat 42°21'54", long 78°48'04", Cattaraugus County, Hydrologic Unit 04120102, at highway bridge, 0.2 mi upstream from Mansfield Creek, and 1.7 mi northeast of Otto, and 5.5 mi upstream from mouth.	25.1	1963-83	11- 3-82	5.66	1,180
04214040	Delaware Creek near Angola, NY	Lat 42°37'46", long 79°03'15", Erie County, Hydrologic Unit 04120103, at bridge on State Highway 5, 1.5 mi southwest of Angola, and 1.6 mi upstream from mouth.	8.32	1963-83	2- 3-83	3.42	240
04214410	Hunter Creek at Colegrave, NY	Lat 42°44'11", long 78°32'55", Erie County, Hydrologic Unit 04120103, at bridge on Center Line Road, 0.3 mi east of Colegrave, and 3.6 mi upstream from mouth.	14.0	1964-83	2- 3-83	4.05	409
		Streams tributary to Niagara River					
04216400	Tonawanda Creek near Johnsonburg, NY	Lat 42°43'05" long 78°19'20", Wyoming County, Hydrologic Unit 04120104, on State Highway 98 near Johnsonburg, and 0.6 mi downstream from East Fork,	23.7	1962-83	11- 5-82	5.88	414
04216875	Little Tonawanda Creek Tributary near Batavia, NY	Lat 43°56'33", long 78°09'46", Genesee County, Hydrologic Unit 04120104, at culvert on Francis Road, 1.6 mi upstream of mouth, and 2.9 mi south of the city limits of Batavia.	1.02	1976-83	2- 2-83	11.05	51
04217700	Murder Creek at Pembroke, NY	Lat 42°59'37", long 78°26'08", Genesee County, Hydrologic Unit 04120104, at bridge on Lake Road, 0.3 mi south of Pembroke, and 12.5 mi west of Batavia.	43.6	1962-72, 1974-83	11- 4-82	6.45	374
04219645	Fourmile Creek near Youngstown, NY	Lat 43°13'49", long 79°01'01", Niagara County, Hydrologic Unit 04120104, at culvert on Balmer Road, 200 ft east of State Highway 18, 1.5 mi southeast of Youngstown, and 3.4 mi above the mouth.	4.88	1970-73, 1976-80, 1982-83	5- 4-83	6.70	95

* Operated as a continuous-record gaging station.
§ Operated as a low-flow partial-record station.
# Miscellaneous measurements made.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Lake Ontario					
04219738	Eighteenmile Creek tributary near Lockport, NY	Lat 43°12'20", long 78°46'47", Niagara County, Hydrologic Unit 04130001, at culvert on Budd Road, 3.3 mi northwest of Lockport and 4.1 mi upstream from mouth.	2.53	1979-83	2- 3-83	11.60	160
04219900	Johnson Creek near Lyndonville, NY	Lat 43°20'21", long 78°20'55", Orleans County, Hydrologic Unit 04130001, at bridge on Woodworth Road, 3.3 mi downstream from dam at Lyndonville, and 4.4 mi upstream from mouth.	87.7	1962-70, 1972-73, 1976-83	5- 2-83	4.04	700
04219922	Oak Orchard Creek at Barrville Road near Elba, NY	Lat 43°05'42", long 78°08'43", Genesee County, Hydrologic Unit 04130001, at culvert on Barrville Road, 2.3 mi northeast of Elba, and 6.0 mi north of Batavia.	6.48	1976-83	12-24-82	7.29	59
04220245	West Creek near Hamlin, NY	Lat 43°17'42", long 77°53'32", Monroe County, Hydrologig Unit 04130001, at culvert on Hamlin Center Road, 1.5 mi east of State Highway 19, and 1.6 mi southeast of Hamlin.	4.56	1978-81, 1983	4- 3-83 5- 2-83	4.38 d4.80	155 -
04221769	Black Creek at Hyder Flats Road at Black Creek, NY	Lat 42°16'03", long 78°13'38", Allegany County, Hydrologic Unit 04130002, at culvert on Hyder Flats Road, 0.6 mi south of Black Creek, and 11.3 mi upstream from mouth.	10.7	1978-83	11- 1-82	5.80	575
04222600	Wiscoy Creek at Bliss, NY	Lat 42°34'59", long 78°14'17", Wyoming County, Hydrologic Unit 04130002, at bridge on county road, 0.1 mi north of State Highway 39, and 0.6 mi east of Bliss.	22.0	1962-65, 1967-83	11- 3-82 12-24-82	1.93 1.93	† †
04224700	Sugar Creek near Ossian, NY	Lat 42°30'52", long 77°48'14", Livingston County, Hydrologic Unit 04130002, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 mi southwest of Ossian, and 5.6 mi upstream from mouth.	10.0	1964-73, 1975, 1977-83	4-26-83	3.92	325
04224900	Mill Creek at Patchinville, NY	Lat 42°31'13", long 77°35'06", Steuben County, Hydrologic Unit 04130002, at bridge on Ellinger Road, 0.1 mi east of State Highway 21, 0.8 mi south of Patchinville, 3.3 mi south of Wayland, and 9.3 mi upstream from mouth.	4.22	1964-83	12-25-82	1.82	113
04231040	Hotel Creek at Griffin Road near Churchville, NY	Lat 43°03'36", long 77°52'28", Monroe County, Hydrologic Unit 04130003, at bridge on Griffin Road, 3.0 mi upstream from mouth, and 3.1 mi southeast of Churchville.	4.57	1976-83	5- 2-83	11.49	33
0423205025	Irondequoit Creek at Landfill Narrows, Rochester, NY	Lat 43°09'58", long 77°31'56", Monroe County, Hydrologic Unit 04140101, on left bank 400 ft east of city limits of Rochester, 0.7 mi north of bridge on Browncroft Boulevard, and 1.1 mi upstream from mouth.	1/144	1980#, 1981-82*, 1983	4-26-83	8.30	860

* Operated as a continuous-record gaging station.
# Miscellaneous measurements made.
† Discharge not determined.
d Backwater from debris.
1/Flow from 8.45 mi^2 contributing to Erie(barge) Canal.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

Streams tributary to Lake Ontario--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
042320527	Mill Creek tributary near Webster,NY	Lat 43°14'45", long 77°26'43", Monroe County, Hydrologic Unit 04140101, at culvert on Woodboro Farms Road, 400 ft east of Holt Road, and 1.8 mi north of Webster.	1.95	1971-72, 1976-83	4-24-83	10.98	49
042320578	Bear Creek at Ontario, NY	Lat 43°13'30", long 77°17'00", Wayne County, Hydrologic Unit 04140101, at culvert on New Street in Ontario, 100 ft west of Furnaceville Road, and 4.0 mi upstream from mouth.	6.74	1971-73, 1975-83	4-24-83	11.65	77
04232071	Second Creek tributary at Alton, NY	Lat 43°12'36", long 76°59'32", Wayne County, Hydrologic Unit 04140101, at culvert on Bond Road, 200 ft south of U.S. Highway 104, 0.3 mi from mouth, and 0.6 mi west of Alton.	1.07	1970, 1973, 1976-83	4-24-83	13.32	50
04232087	Red Creek tributary No. 16 near Red Creek, NY	Lat 43°13'36", long 76°42'23", Cayuga County, Hydrologic Unit 04140101, at culvert on town road (Red Creek Road), 1.3 mi southeast of Red Creek.	2.90	1969, 1976-83	4-24-83	6.90	58
04232460	Sugar Creek at Guyanoga, NY	Lat 42°37'23", long 77°09'30", Yates County, Hydrologic Unit 04140201, at bridge on Sid White Road, 0.4 mi east of Guyanoga, and 2.3 mi upstream from mouth.	28.9	1966-83	4-16-83	3.41	219
04232630	Kendig Creek near MacDougall, NY	Lat 42°50'57", long 76°53'33", Seneca County, Hydrologic Unit 04140201, at downstream side of bridge on County Highway 120, 3.0 mi north of MacDougall, 3.5 mi (5.6 km) southwest of Waterloo, and 4.6 mi upstream from mouth.	13.8	1965-68*, 1969-83	4-16-83	4.44	288
04233255	Cayuga Inlet at Ithaca, NY	Lat 42°25'38", long 76°31'19", Tompkins County, Hydrologic Unit 04140201, on upstream abutment face of flood-control weir, at east end of Burtt Place, south of Ithaca city line, 0.3 mi east of State Highway 13a, 0.9 mi downstream from Buttermilk Creek, and 2.4 mi upstream from mouth.	86.7	1971-72, 1975-83	4-15-83	<7.95	<1,900
04233310	Sixmile Creek near Ithaca, NY	Lat 42°24'33", long 76°27'14", Tompkins County, Hydrologic Unit 04140201, at bridge on Burns Road, 1.8 mi southeast of Ithaca, and 4.4 mi upstream from mouth.	42.0	1967-69, 1971-73, 1976-83	4-24-83	4.31	1,040
04233676	Virgil Creek at Mill Street, Dryden, NY	Lat 42°29'18", long 76°18'08", Tompkins County, Hydrologic Unit 04140201,at bridge on Mill Street at Dryden, and 0.1 mi upstream from Dryden Lake Outlet.	20.7	1966-70, 1972, 1975-83	4-24-83	3.11	762
04233700	Virgil Creek at Freeville, NY	Lat 42°30'18", long 76°21'01", Tompkins County, Hydrologic Unit 04140201, on left bank, 10 ft upstream from bridge on Johnson Street in Freeville, and 0.7 mi upstream from Fall Creek.	40.3	1974-75*, 1976-83	4-24-83	15.89	902
042340202	Cayuga Lake tributary No. 8 near Jacksonville, NY	Lat 42°32'24", long 76°35'35", Tompkins County, Hydrologic Unit 04140201, at culvert on State Highway 89 (Taughannock Buolevard), 0.1 mi upstream from mouth, and 2.4 mi northeast of Jacksonville.	1.36	1977-83	4-24-83	5.75	57

* Operated as a continuous-record gaging station.
< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1983--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Lake Ontario--Continued					
042340588	Yawger Creek tributary near Auburn, NY	Lat 42°54'41", long 76°39'46", Cayuga County, Hydrologic Unit 04140201, at culvert on Chamberlain Road, 3.5 mi west of Auburn, and 4.3 mi upstream from mouth.	1.76	1976-83	5- 2-83	10.29	30
04234138	Schaeffer Creek near Canandaigua NY	Lat 42°54'25", long 72°22'14", Ontario County, Hydrologic Unit 04140201, at culvert on McCann Road, 0.8 mi upstream from Mud Creek, 1.7 mi north of U.S. Highway 20, and 3.2 mi west of Canandaigua.	7.84	1980-83	4-26-83	12.21	275
04234200	Mud Creek at East Victor, NY	Lat 42°58'28", long 77°22'58, Ontario County, Hydrologic Unit 04140201, 25 ft downstream from bridge on State Highway 96 at East Victor, 0.3 mi upstream from Fish Creek, and 0.5 mi upstream from mouth.	64.2	1958-68*, 1972, 1976-83	4-25-83	5.30	875
04234363	Marbletown Creek tributary near Newark, NY	Lat 43°02'47", long 77°02'57", Wayne County, Hydrologic Unit 04140201, at culvert at intersection of Brumm and Sutton Roads, and 1.2 mi east of Newark.	0.58	1976-83	4-26-83	4.13	14
04235255	Canandaigua Outlet tributary near Alloway, NY	Lat 43°00'21", long 77°00'54", Ontario County, Hydrologic Unit 04140201, at bridge on Pre-Emption Road, 0.5 mi south of Wayne-Ontario County line, 1.8 mi southwest of Alloway, and 2.9 mi upstream from mouth.	2.94	1978-83	4-25-83	5.82	78
04235276	Black Brook at Tyre, NY	Lat 42°59'30", long 76°48'13", Seneca County, Hydrologic Unit 04140201, at bridge on County Highway 101, in village of Tyre, and 0.8 mi upstream from mouth.	19.0	1966-73, 1975-83	4-25-83	2.67	215
04242795	Canada Creek tributary near Lee Center, NY	Lat 43°19'40", long 75°31'52", Oneida County, Hydrologic Unit 04140202, at culvert on Streum Road at Negro Road, 1.6 mi upstream from mouth, 1.7 mi northwest of Lee Center, and 7.6 mi northwest of Rome.	1.34	1977-83	4-16-83	2.45	57
04245840	Scriba Creek near Constantia, NY	Lat 43°15'35" long 76°00'11", Oswego County, Hydrologic Unit 04140202, on right bank, 8 ft upstream from road to Ingersol Road, and about 0.8 mi north of village of Constantia.	38.4	1966-68*, 1969, 1971-83	4-16-83	4.98	496
04249050	Catfish Creek at New Haven, NY	Lat 43°29'00", long 76°19'34", Oswego County, Hydrologic Unit 04140102, at bridge on State Highway 104B, at New Haven, and 1.4 mi upstream from mouth.	31.7	1962-66, 1968-83	4-16-83	5.05	411

* Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1983

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Susquehanna River basin				
*01496370 Mink Creek	Canadarago Lake	Lat 42°50'55", long 75°00'10", Otsego County, Hydrologic Unit 02050101, at bridge on State Highway 28, 0.4 mi southwest of Richfield Springs, and 1 mi upstream from mouth.	10.4	1963, 1968-78, 1980	3-31-80 4-26-83	73.5 123
*01497805 Little Elk Creek	Elk Creek	Lat 42°38'01", long 74°47'45", Otsego County, Hydrologic Unit 02051010, at culvert on Greenbush Road, 1.2 mi south of Westford and 2.2 mi upstream from mouth.	3.73		4-26-83	40.1
*01502701 Susquehanna River	Atlantic Ocean	Lat 42°13'38", long 75°31'27", Chenango County, Hydrologic Unit 02050101, at bridge on State Highway 41 at Afton.	1,716	1972, 1977, 1979-80, 1982	5- 4-83	20,000
*01503960 Electric Light Stream	Chenango River	Lat 42°52'51", long 75°38'37", Madison County, Hydrologic Unit 02050102, at bridge on Eaton-Morrisville Road, in Eagleville, 0.4 mi upstream from mouth, and 1.3 mi south of Morrisville.	7.21	1975, 1977-78, 1980-81	4-26-83	164
*01503980 Chenango River	Susquehanna River	Lat 42°51'02", long 75°36'21", Madison County, Hydrologic Unit 02050102, at bridge on Landon Road at Eaton, 0.1 mi upstream from Eaton Brook, and 0.1 mi downstream from State Highway 26.	24.3	1964-65, 1967-82	4-26-83	427
*01507000 Chenango River	Susquehanna River	Lat 42°19'28", long 75°46'18", Chenango County, Hydrologic Unit 02050102, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mi downstream from Birdsall Creek.	593	1937-70a/ 1971-79, 1982	10-31-77 4-10-78 3- 7-79 10-30-81 4-26-83	892 3,050 11,400 2,760 6,800
*01511500 Tioughnioga River	Chenango River	Lat 42°17'53", long 75°54'33", Broome County, Hydrologic Unit 02050102, on right bank at Itaska, 3.8 mi downstream from Otselic River and village of Whitney Point, and 6 mi upstream from mouth.	730	1929-67a/ 1968-79, 1982	11- 3-77 4-10-78 3- 7-79 10-28-81 5- 5-83 7-28-83 9- 6-83	706 6,390 8,040 15,200 5,340 112 96.0
*01513500 Susquehanna River	Atlantic Ocean	Lat 42°05'27", long 76°03'23", Broome County, Hydrologic Unit 02050103, on left bank 400 ft downstream from highway bridge at Vestal, and 800 ft upstream from Choconut Creek.	3,941	1929-67a/ 1968-78, 1980	10-29-81 4-27-83	35,900 40,300
01516000 Cayuta Creek	Susquehanna River	Lat 42°00'32", long 76°31'37", Tioga County, Hydrologic Unit 02050103, at bridge on Ithaca Street at Waverly, 2.4 mi upstream from mouth.	137	1962-76 1978-80	12-12-79 8-30-83 8-30-83	109 8.11 [illegible].68
01527625 Cohocton River	Chemung River	Lat 42°23'05", long 77°22'52", Steuben County, Hydrologic Unit 02050105, at site northwest of State Highway 415, 1.4 mi downstream from Salmon Creek, and 1.0 mi northwest of Kanona.			9-21-83	19.4
01527997 Fivemile Creek	Cohocton River	Lat 42°23'36", long 77°20'50", Steuben County, Hydrologic Unit 02050105, at site along State Highway 53, 0.8 mi upstream from gaging station 01528000, and 1.3 mi south of Marshalls.			9-20-83	0.70
01528217 Cohocton River	Chemung River	Lat 42°21'46", long 77°21'37", Steuben County, Hydrologic Unit 02050105, at site 0.1 mi southwest of State Highway 415, 0.3 mi downstream from Campbell Creek, and 0.9 mi southeast of Kanona.			9-21-83	21.2

* Also a crest-stage partial-record station.

a/ Operated as a continuous-record gagine station.

Discharge measurements made at miscellaneous sites during water year 1983--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Allegheny River Basin				
03010820 Allegheny River	Ohio River	Lat 42°04'19", long 78°27'10", Cattaraugus County, Hydrologic Unit 05010001, on right bank at sewage plant at Olean, 1.3 mi upstream from Twomile Creek and 1.7 mi downstream from Olean Creek.	1,192	1967-69, 1971, 1975	7-27-83	267
		Streams tributary to Niagara River				
*04216875 Little Tonawanda Creek Tributary	Little Tonawanda Creek	Lat 43°56'33", long 78°09'46", Genesee County, Hydrologic Unit 04120104, at culvert on Francis Road, 1.6 mi upstream from mouth, and 2.9 mi south of the city limits of Batavia.	1.02		2-23-83	1.36
*04217700 Murder Creek	Tonawanda Creek	Lat 42°59'37", long 78°26'08", Genesee County, Hydrologic Unit 04120104, at bridge on Lake Road, 0.3 mi south of Pembroke, and 12.5 mi west of Batavia.	43.6	1961-64, 1970-72, 1974, 1978-79	4- 4-78 9-15-79 12- 1-82 2-24-83	152 371 201 71.7
04218293 Tonawanda Creek	Niagara River	Lat 43°02'09", long 78°49'10", Erie County, Hydrologic Unit 04120104, at bridge on East Robinson Street, 1.1 mi downstream from Bull Creek, and 1.6 mi northeast of Tonawanda.			2- 1-83	370
*04219738 Eighteenmile Creek Tributary	Eighteenmile Creek	Lat 43°12'20", long 78°46'47", Niagara County, Hydrologic Unit 04130001, at culvert on Budd Road, 3.3 mi northwest of Lockport and 4.1 mi upstream from mouth.	2.53		12-16-82 12-16-82	12.6 10.7
		Streams tributary to Lake Ontario				
*04219900 Johnson Creek	Lake Ontario	Lat 43°20'21", long 78°20'55", Orleans County, Hydrologic Unit 04130001, at bridge on Woodworth Road, 3.3 mi downstream from dam at Lyndonville, and 4.4 mi upstream from mouth.	87.7	1961-62, 1964-65, 1968, 1979	3- 5-79 5- 5-83	2,290 421
*04222600 Wiscoy Creek	Genesee River	Lat 42°34'59", long 78°14'17", Wyoming County, Hydrologic Unit 04130002, at bridge on County Highway 37, 0.1 mi north of State Highway 39, and 0.6 mi east of Bliss.	22.0	1961-62 1964-65, 1972, 1977, 1980	11- 5-82	91.0
042320502 Irondequoit Creek	Lake Ontario	Lat 43°09'27", long 77°31'37", Monroe County, Hydrologic Unit 04140101, on right bank 200 ft downstream from bridge on Browncroft Boulevard (State Highway 286A), 0.6 mi east of State Highway 47, and 2.0 mi upstream from mouth.	1/144	1976-80	9- 9-83	47.1
0423205023 Irondequoit Creek	Lake Ontario	Lat 43°09'58", long 77°31'56", Monroe County, Hydrologic Unit 04140101, on left bank at landfill narrows, 400 ft east of City of Rochester corporate boundary, 0.7 mi north of bridge on Browncroft Boulevard, and 1.1 mi upstream from mouth.	1/144	1980, 1981-82a/	4- 2-80 8-19-80 10-28-82 11- 2-82 12- 7-82 12-21-82 1- 5-83 2-15-83 3-30-83 4-26-83 5-12-83 6-22-83 7-28-83 8-23-83 9- 9-83	274 39.0 41.5 110 110 92.3 78.4 82.1 173 845 121 55.6 37.3 61.3 48.6

* Also a crest-stage partial-record station.

1/ Flow from 8.45 mi^2 contributing to Erie (Barge) Canal

a/ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1983--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	 Discharge (ft³/s)
		Streams tributary to Lake Ontario--Continued				
*04234200 Mud Creek	Ganargua Creek	Lat 42°58'28", long 77°22'58", Ontario County, Hydrologic Unit 04140201, 25 ft downstream from bridge on State Highway 96, 0.3 mi upstream from Fish Creek at East Victor, and 0.5 mi upstream from mouth.	64.2	1958-68a/ 1969, 1980, 1982	3-19-80 3-22-80 3-24-82 3-29-83	122 596 155 308

* Also a crest-stage partial-record station.

a/ Operated as a continuous-record gaging station.

Cherry Valley Creek seepage investigation

A pair of discharge measurements were made during the 1983 water year, on Augut 24, along Cherry Valley Creek, in the Village of Cherry Valley, Otsego County. The measurements were made at base flow to determine whether the pumping of 160 gal/min (0.23 mgal/d) from two public supply wells 150 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured about 1.0 ft beneath the streambed by means of a drive point. The head in the aquifer was equal to the stream stage and wasn't responsive to pumping influence. Indicated gains may be affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
01496760	Cherry Valley Creek	150	About 250 ft above bridge to pump house.	0.155	--	13.0
			About 250 ft below bridge to pump house.	0.170	+0.015	14.0

North Winfield Creek seepage investigation

A pair of discharge measurements were made during the 1983 water year, on August 17, along North Winfield Creek above U.S. 20, in the Village of West Winfield, Herkimer County. The measurements were made at base flow to determine whether the pumping of 86 gal/min (0.12 mgal/d) from a public supply well 80 feet away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumpng well. Heads were measured in the aquifer about 1.0 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and responded to pumping influence. Indicated losses may be related to pumpage, but also could be due to a losing stream system.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
01500849	North Winfield Creek	80	About 100 ft above foot bridge.	1.148	--	20.0
			About 280 ft below foot bridge.	1.027	-0.121	25.0

Chenango River seepage investigations

A pair of discharge measurements were made during the 1983 water year, on September 16, along the Chenango River, in the Village of Morrisville, Madison County. The measurements were made at base flow to determine whether the pumping of 150 gal/min (0.22 mgal/d) from a public supply well 150 feet away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the stream-bed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 3.0 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and responded to pumping influence. Stream gain may be a function of ground-water input in excess of that portion captured by the pumping well. Streambed permeability is significantly low.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
01503951	Chenango River	150	About 190 ft above pump house.	0.769	--	10.0
			About 180 ft below pump house.	0.803	+0.034	10.0

A pair of discharge measurements were made during the 1983 water year, on September 16, along Chenango River, at County Highway 105 at Morrisville, Madison County. The measurements were made at base flow to determine whether the pumping of 350 gal/min (0.50 mgal/d) from two wells owned by SUNY at Morrisville, 120 ft and 300 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the stream is within the cone of influence of the pumping wells. Heads were measured in the aquifer about 4.0 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and is believed due to continuous pumping. Stream gain may be a function of ground-water input in excess of that portion captured by the pumping well. Streambed permeability is significantly low.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
01503952	Chenango River	120	About 425 feet above well point.	0.570	--	13.0
			About 85 feet below well point.	0.589	+0.019	13.0

West Branch Tioughnioga Creek seepage investigation

A series of discharge measurements were made during the 1983 water year on Oct. 8, along West Branch Tioughnioga Creek and tributaries in the town of Fabius, Onondaga County. The measurements were made during periods of baseflow to determine ground-water yield from the stratified drift within the valley, and to estimate aquifer properties. Tributary flow where streams enter areas of stratified drift is treated as a contribution, not a gain. Indicated gains and losses may be substantially in error as affected by small inaccuracies in open-channel discharge measurements and by possible unmeasured contributions from small tributaries.

Site number	Stream name	Distance from mouth (tributaries) or from Bardeen Crossroad (West Branch Tioughnioga Creek) (miles)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)
01507912	West Branch Tioughnioga Creek	3.56	1600 ft downstream from Waters Road and 2300 ft downstream from State Highway 80.	dry	--
01507920	Carpenter Creek	.82	100 ft downstream from bridge on Pompey Center Road.		
01507921	West Branch Tioughnioga Creek	2.05	1400 ft downstream from State Highway 80, 150 ft downstream from Carpenter Creek where creek cuts through old embankment for pipeline crossing.	.13	-0.07
01507928	West Branch Tioughnioga Creek	0	At Bardeen Crossroad.		
			East Channel.	.97	+ .91
			West Channel.	.07	

Susquehanna River Tributaries seepage investigation

Two sets of base-flow discharge measurements were made during the 1983 water year and the beginning of the 1984 water year in the Triple Cities area of Broome County, on 12 tributary streams to the Susquehanna River. These measurements were made as part of a study by the Northeast Glacial Regional Aquifer-System Analysis group to help determine gain and/or loss of ground water per unit length of the streams. Measurements are listed in downstream order. Locations where streamflow ceased and the streambed went dry were observed and are listed as zero discharge.

Site number	Stream name	Distance from mouth (ft)	Measuring site	Date	Meas. disch. (ft^3/s)	Temp (°C)
01503356	Chamberlain Creek at Binghamton	3690	Lat 42°06'47", long 75°52'44", 15 ft downstream from culvert on Wilcox Street.	6/22	0.14	19.0
01503358	Chamberlain Creek	2160	Lat 42°06'33", long 75°52'46", 175 ft upstream from culvert on Robinson Street.	6/22	0.10	27.5
	Chamberlain Creek	800	200 ft upstream from bridge on Court Street.	6/22	0.00	
01503359	Chamberlain Creek	1690	Lat 42°06'28", long 75°52'45", 200 ft downstream from culvert on Robinson Street.	10/4	0.04	
01503360	Chamberlain Creek	920	Lat 42°06'21", long 75°52'45", 320 ft upstream from bridge on Court Street.	10/4	0.04	
	Chamberlain Creek	900	300 ft upstream from bridge on Court Street.	10/4	0.00	
01503376	Pierce Creek at at Binghamton	5620	Lat 42°05'19", long 75°53'07", at end of Pierce Street.	6/27	0.24	25.0
01503378	Pierce Creek	4150	Lat 42°05'31", long 75°53'16", 400 ft upstream from end of Cross Street.	6/27	0.10	27.0
01503380	Pierce Creek	730	Lat 42°06'03", long 75°53'28", 200 ft downstream from end of Webster Street.	6/27	0.04	34.0
	Pierce Creek	2350	1000 ft upstream from bridge on Conklin Avenue.	10/4	0.00	
01513305	Susquehanna River tributary at Johnson City	3380	Lat 42°07'24", long 75°59'32", 100 ft upstream from bridge on Barton Avenue.	6/27	0.03	22.0
	Susquehanna River tributary	2880	500 ft downstream from bridge on Barton Avenue.	6/27	0.00	
01513403	Patterson Creek at Endwell	3910	Lat 42°06'45", long 76°01'13", at end of Robinson Street.	6/20	6.79	22.0
01513405	Patterson Creek	2340	Lat 42°06'31", long 76°01'10", 40 ft downstream from railroad culvert.	6/20	6.57	22.0
01513407	Patterson Creek	1160	Lat 42°06'29", long 76°00'56", 125 ft upstream from bridge on Main Street.	6/20	6.59	22.0
01513410	Patterson Creek	380	Lat 42°06'22", long 76°00'52", between eastbound and westbound bridges on State Highway 17.	6/20	7.45	22.0

Susquehanna River Tributaries seepage investigation--Continued

Site number	Stream name	Distance from mouth (ft)	Measuring site	Date	Meas. disch. (ft^3/s)	Temp (°C)
01513420	Willow Run at Twin Orchards	4410	Lat 42°05'33", long 76°00'50", 300 ft upstream from culvert on State Highway 434.	10/4	0.10	
01513421	Willow Run	3840	Lat 42°05'38", long 76°00'54", at upstream entrance to culvert on State Highway 434.	10/4	0.04	
	Willow Run	3660	75 ft downstream from culvert on State Highway 434.	10/4	0.00	
01513426	Willow Run Trib. at Twin Orchards	3280	Lat 42°05'33", long 76°01'18", 300 ft upstream from culvert on State Highway 434.	6/22	0.10	14.5
01513428	Willow Run Trib.	3040	Lat 42°05'39", long 76°01'15", 75 ft upstream from railroad culvert.	6/22	0.15	15.5
01513460	Brixius Creek at Endicott	7650	Lat 42°06'40", long 76°02'28", 150 ft downstream from culvert on Witherill Street.	6/21 10/5	0.16 0.57	20.5
01513462	Brixius Creek	7010	Lat 42°06'33", long 76°02'28", 115 ft downstream from culvert on Watson Boulevard.	6/21	0.21	22.0
01523464	Brixius Creek	6410	Lat 42°06'31", long 76°02'22", 40 ft downstream from culvert on Hayes Avenue.	6/21 10/5	0.25 0.42	21.0
01513468	Brixius Creek at Endwell	3110	Lat 42°06'30", long 76°01'40", 50 ft upstream from railroad culvert.	6/21	0.36	23.5
01513469	Brixiux Creek	2420	Lat 42°06'26", long 76°01'34, 125 ft upstream from culvert on Main Street.	10/5	0.64	
015234695	Brixius Creek	1910	Lat 42°06'22", long 76°01'34", 100 ft downstream from culvert on Main Street.	10/5	0.53	
01513470	Brixius Creek	1390	Lat 42°06'17", long 76°01'35", 50 ft upstream from end of Buckingham Road.	6/21	0.44	
01513697	Choconut Creek at Vestal	4770	Lat 42°04'46", long 76°03'31", at end of Leland Avenue.	10/4	0.94	
01513698	Choconut Creek	4180	Lat 42°04'49", long 76°03'38", at end of Elizabeth Street.	6/22	9.85	21.0
01513702	Choconut Creek	1070	Lat 42°05'15", long 76°03'48", 250 ft downstream from bridges on State Highway 17.	6/22 10/4	9.80 0.24	22.0
	Choconut Creek	770	555 ft downstream from bridges on State Highway 17.	10/4	0.00	
01513794	Naticoke Creek Trib. at West Corners	4920	Lat 42°06'51", long 76°04'59", 40 ft downstream from bridge on Day Hollow Road.	10/5	0.08	
01513795	Naticoke Creek Trib.	4290	Lat 42°06'49", long 76°04'51", at end of Irma Avenue.	6/21 10/5	0.48 0.14	23.0
015137955	Naticoke Creek Trib.	3260	Lat 42°06'48", long 76°04'38", at end of Carrie Avenue.	10/5	0.05	
01513796	Naticoke Creek Trib.	2640	Lat 42°06'45", long 76°04'31", 75 ft upstream from end of Leona Avenue.	6/21 10/5	0.50 0.17	19.0
01513797	Naticoke Creek Trib.	1100	Lat 42°06'45", long 76°04'12", 30 ft downstream from culvert on State Highway 26.	6/21 10/5	0.40 0.18	21.0
01513802	Dead Creek at Endicott	2760	Lat 42°05'09", long 76°05'49", 600 ft upstream from culvert on Airport Road.	6/21	0.07	20.5
	Dead Creek	2460	300 ft upstream from culvert on Airport Road.	6/21	0.00	
01513807	Tracy Creek at Ross Corners	4760	Lat 42°03'41", long 76°06'05", 1/2 mile upstream bridge on old State Highway 17.	6/21	0.45	25.0
	Tracy Creek	4660	Approximately 1/2 mi upstream from bridge on old State Highway 17.	10/4	0.00	
01513809	Tracy Creek at	2140	Lat 42°04'06", long 76°06'11", 100 ft downstream from bridge on old State Highway 17.	6/21	0.32	24.0
01513816	Susquehanna River Trib. at Crest-view Heights	1020	Lat 42°04'17", long 76°07'06", 50 ft downstream from culvert on State Highway 17C.	6/21 10/4	0.10 0.02	19.0
	Susquehanna River Trib.	570	150 ft upstream from railroad culvert.	6/21 10/04	0.00 0.00	

Cayuta Creek seepage investigation

A pair of discharge measurements were made during the 1983 water year, on August 30, along Cayuta Creek in the Village of Waverly, Tioga County. The measurements were made at baseflow to determine whether the pumping of 500 gal/min (0.72 mgal/d) from a public supply well 65 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 2.5 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and responded after cessation of pumping. Indicated gains may be affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
01516000	Cayuta Creek	65	About 150 ft above pump house.	8.11		21.0
			About 150 ft below pump house.	8.88	+0.77	23.0

ALLEGHENY RIVER BASIN

Little Genesee Creek Tributary seepage investigation

A pair of discharge measurements were made during the 1983 water year, on September 1, along Little Genesee Creek tributary near the Village of Bolivar, Allegheny County. The measurements were made at base flow to determine whether the pumping of 240 gal/min (0.35 mgal/d) from a public supply well 100 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 3.5 ft beneath the steambed by means of a drive point. The head in the aquifer was lower than the stream stage but was not believed responsive to pumping influence. Indicated losses may be affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
03010676	Little Genesee Creek Tributary	100	About 150 ft above pump house.	0.947	--	23.0
			About 150 ft below pump house.	0.821	-0.126	23.0

Olean Creek seepage investigation

A series of base flow discharge measurements were made on July 27, 1983 on Olean Creek in and near the City of Olean, Cattaraugus County, at 81% duration to study channel gains and losses. The reach is 2.3 mi in length and extends from a point upstream of North Olean, lat 42°06'13", long 78°26'08", to the State Highway 417 bridge, 0.1 mi upstream from the mouth. Duration figures are based on records for the gaging station Allegheny River at Salamanca (03011020). Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially affected by small inaccuracies in open-channel measurements.

Site number	Stream name	Distance from mouth (miles)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)
03010800	Olean Creek	4.6	Near Olean.	28.4	
03010805		2.4	Near Kents Road at North Olean railroad crossing.	27.9	-0.5
03010806		1.9	At railroad bridge at North Olean.	26.7	-0.7
		1.8	Withdrawal at City of Olean filtration plant.	-4.45	
03010810		1.0	At Main Street bridge at Olean.	22.4	+.15
03010811		0.1	At State Highway 417 bridge at Olean.	24.4	+2.0

Mud Creek seepage investigation

Two pairs of discharge measurements were made during the 1983 water year, on September 14, along Mud Creek in the Village of Mayville, Chautauqua County. The measurements were made at base flow to determine whether the pumping of 180 gal/min (0.26 mgal/d) from a public supply well 130 ft away induced recharge from the stream. The permeability of a steambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 4.5 ft beneath the streambed by means of a drive point. The head was higher than the stream stage and responded after cessation of pumping. The two sets of discharge measurements indicated a loss as the stream passed the pump house. Indicated losses may be affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
03013660	Mud Creek	130	About 120 ft above pump house.	0.340	--	14.0
			Even with pump house.	.289	-0.051	14.0
			About 120 ft above pump house.	.333	--	14.5
			Even with pump house.	.300	-0.033	14.0

French Creek and Tributary seepage investigations

A pair of discharge measurements were made during the 1983 water year, on September 1, along French Creek in the Village of Sherman, Chautauqua County. The measurements were made at base flow to determine whether the pumping of 330 gal/min (0.48 mgal/d) from a public supply well 180 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 3.0 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and responded to pumping influence. Indicated losses may be affected by small inaccuracies in open-channel discharge measurements. The tributary enters French Creek between the points where discharge was measured and although the tributary discharge was not measured the stream did show a recovery in stage which may be related to pumpage.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
03021105	French Creek	180	About 100 ft above pump house.	10.838	--	18.5
			About 100 ft below pump house.	10.653	-0.185	19.0

STREAMS TRIBUTARY TO LAKE ONTARIO

Irondequoit Creek seepage investigation

A series of discharge measurements was made during the 1983 water year, on September 9, along Irondequoit Creek and tributaries downstream from gaging station 04232040, Irondequoit Creek near Pittsford, N.Y. The measurements were made during a period of base flow to determine flow loss to, or ground-water discharge from, the underlying variable glacial deposits. Tributary flow is treated as a contribution, not a gain. Indicated gains and losses may be substantially affected by small inaccuracies in open-channel discharge measurements and by possible unmeasured contributions from small tributaries.

Site number	Stream name	Distance from mouth (miles)	Measuring site	Drainage area (mi^2)	Measured discharge (ft^3/s)	Gain or loss (ft^3/s)
04232040	Irondequoit Creek	15.6	See Irondequoit Creek near Pittsford.	44.4	15.8	
0423204073	Irondequoit Creek	14.4	100 ft upstream from Mill Creek, 780 ft east of East Street, and 0.7 mi north of Thornell Road.	44.8	17.0	+1.2
0423204175	Mill Creek	0.0	At mouth, 760 ft east of East Street, and 0.7 mi north of Thornell Road.	7.34	1.21	
0423204353	Irondequoit Creek	11.9	200 ft west of cul-de-sac at end of Green Valley Road, 300 ft upstream from Cross Canal Brook, and 0.4 mi northeast of Interstate Highway 490 interchange with State Highway 31.	1/56.3	22.1	+3.9
0423204375	Cross Canal Brook	0.0	At mouth, 300 ft north of cul-de-sac at end of Green Valley Road.	2/ 2.52	.42	
0423204420	Irondequoit Creek	10.4	250 ft southwest of abandoned sewage treatment plant, 0.6 mi south of railroad bridge, and 0.7 mi west of Jefferson Road.	3/59.7	23.4	+0.9
0423204533	Irondequoit Creek	9.3	50 ft upstream from Thomas Creek, 1200 ft south of Conrail railroad tracks, and 0.4 mi north of State Highway 31F.	4/65.8	24.4	+1.0

1/ 0.53 mi^2 contributing to Erie (Barge) Canal
2/ 0.36 mi^2 contributing to Erie (Barge) Canal
3/ 0.89 mi^2 contributing to Erie (Barge) Canal
4/ 4.09 mi^2 contributing to Erie (Barge) Canal

Irondequoit Creek seepage investigation--Continued

Site number	Stream name	Distance from mouth (miles)	Measuring site	Drainage area (mi^2)	Measured discharge (ft^3/s)	Gain or loss (ft^3)
0423204605	Thomas Creek	0.0	50 ft upstream from mouth, and 1200 ft south of Conrail railroad tracks.	5/ 28.8	6.44	
0423204615	Irondequoit Creek	8.9	65 ft downsteam from bridge to East Rochester DPW garage, 0.1 mi downstream from Conrail railroad bridge, and 0.35 mi downsream from Thomas Creek.	6/ 94.7	31.9	+1.1
04232047	Irondequoit Creek	7.8	See Irondequoit Creek at Linden Avenue, E. Rochester.	6/100.9	31.3	-0.6
0423204710	Irondequoit Creek	6.8	700 ft southwest of abandoned sewage treatment plant and 800 ft south of State Highway 441.	6/101.6	34.3	+3.0
0423204718	Irondequoit Creek	6.2	500 ft upsteam from bridge on Panorama Trail and 0.4 mi upstream from Allen Creek.	6/102.1	32.0	-2.3
0423204723	Irondequoit Creek	5.8	150 ft upstream from Allen Creek and 0.3 mi downstream from bridge on Panorama Trail.	6/103.2	32.1	+0.1
0423205001	Allen Creek	0.0	120 ft upstream from mouth and 0.3 mi downstream from bridge on Panorama Trail.	7/ 30.8	10.9	
0423205005	Irondequoit Creek	5.3	400 ft upstream from Thousand Acre Brook and 0.3 mi north of bridge on Penfield Road.	8/134.4	40.8	-2.2
0423205007	Thousand Acre Brook	0.0	At east end of Genesee Conservation League rifle range and 200 ft upstream from mouth.	5.54	.083	
0423205009	Irondequoit Creek	4.5	Along trail 500 ft east of Blossom Road and 0.9 mi upstream from bridge on Blossom Road.	8/141.7	42.9	+2.0
0423205010	Irondequoit Creek	3.6	See Irondequoit Creek at Blossom Road, Rochester.	8/142.8	46.4	+3.5
0423205015	Irondequoit Creek	2.4	0.2 mi southeast of west entrance to Ellison Park, 0.2 mi downstream from Sand Hill bridge, and 0.4 mi upstream from Browncroft Blvd.	8/143.1	46.7	+0.3
0423205020	Irondequoit Creek	2.0	30 ft upstream from bridge on Browncroft Blvd.	8/143.9	47.1	+0.4
0423205023	Irondequoit Creek	1.1	See Irondequoit Creek at Landfill Narrows(p. 171).	8/144.5	48.6	+1.5

5/ 0.86 mi^2 contributing to Erie (Barge) Canal.

6/ 4.95 mi^2 contributing to Erie (Barge) Canal.

7/ 3.50 mi^2 contributing to Erie (Barge) Canal.

8/ 8.45 mi^2 contributing to Erie (Barge) Canal.

Dryden Lake Outlet seepage investigation

A pair of discharge measurements were made during the 1983 water year, on August 29, along Dryden Lake Outlet above State Highway 38 in the Village of Dryden, Tompkins County. The measurements were made at base flow to determine whether the pumping of 50 gal/min (0.07 mgal/d) from a public supply well 135 ft away induced recharge from the stream. The permeability of a streambed controls stream loss where the underlying shallow aquifer has a lower head or the streambed is within the cone of influence of the pumping well. Heads were measured in the aquifer about 3.0 ft beneath the streambed by means of a drive point. The head in the aquifer was lower than the stream stage and did not respond to pumping influence due to low pumpage and the well is a deep artesian system. Indicated losses may be affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Distance from point perpendicular to stream from well (ft)	Measuring site	Meas. disch. (ft^3/s)	Gain or loss (ft^3/s)	Temp (°C)
0423368490	Dryden Lake Outlet	135	About 80 ft above pump house.	2.10	--	23.0
			About 80 ft below pump house.	2.08	-.02	23.0

BROOME COUNTY

420646075531201. Local number, Bm 100.

LOCATION.--Lat 42°06'46", long 75°53'12", Hydrologic Unit 02050103, at Moeller and Frederick Streets, Binghamton. Owner: U.S. Geological Survey.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Water-level recorder on drilled observation well, diameter 6 in, depth 52 ft, cased to 52 ft, slotted 40 ft to 45 ft.

METHOD OF MEASUREMENT.--Water stage recorder.

DATUM.--Land-surface datum is 851.05 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 2.86 ft above land-surface datum.

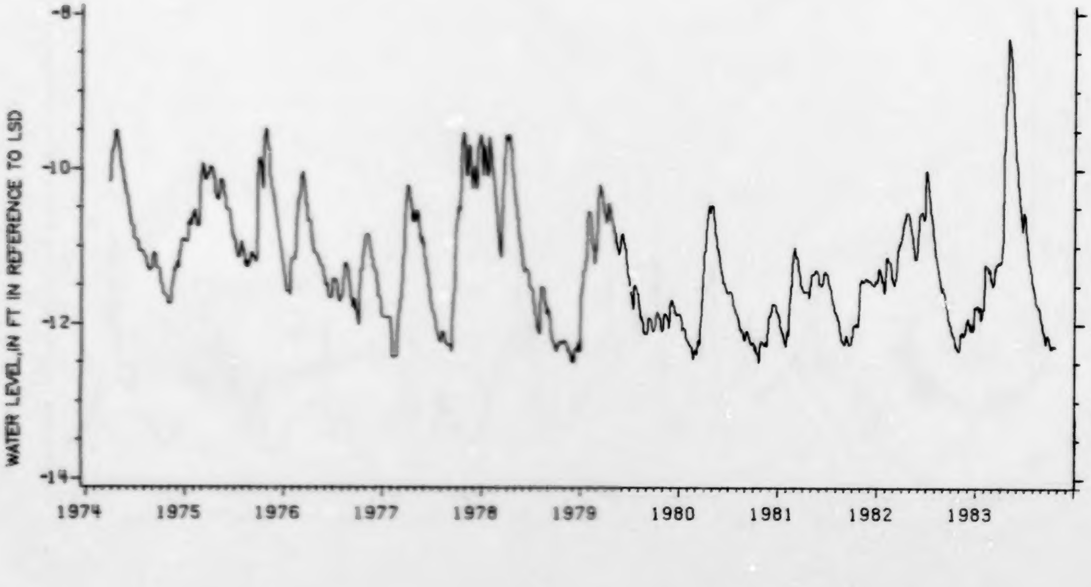
PERIOD OF RECORD.--October 1946 to July 1955, April 1966 to current year. Unpublished record for October 1946 to July 1955 (intermittent), April 1966 to April 1968 (intermittent) and May 1968 to September 1977 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.29 ft below land-surface datum, May 4, 1983; lowest measured 12.83 ft below land-surface datum, October 13, 1946.

EXTREMES FOR CURRENT YEAR.--Highest water level, 8.29 ft below land-surface datum, May 4; lowest, 12.35 ft below land-surface datum, Oct. 31.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.00	12.33	11.97	11.77	11.81	11.40	11.20	8.75	9.80	10.56	11.46	11.95
2	12.02	12.33	11.96	11.77	11.79	11.40	11.21	8.55	9.84	10.56	11.50	11.96
3	12.04	12.33	11.95	11.77	11.66	11.44	11.20	8.38	9.87	10.58	11.52	11.97
4	12.08	12.32	11.93	11.79	11.47	11.44	11.21	8.30	9.88	10.60	11.53	11.98
5	12.10	12.27	11.94	11.78	11.33	11.49	11.21	8.30	9.96	10.63	11.55	11.98
6	12.12	12.19	11.93	11.77	11.25	11.51	11.21	8.35	9.98	10.67	11.55	11.99
7	12.11	12.14	11.98	11.76	11.22	11.48	11.20	8.36	9.99	10.74	11.57	12.04
8	12.11	12.12	12.00	11.78	11.23	11.49	11.18	8.36	10.03	10.76	11.59	12.08
9	12.12	12.13	11.99	11.80	11.24	11.48	11.17	8.39	10.17	10.80	11.62	12.08
10	12.15	12.13	11.99	11.79	11.24	11.48	11.09	8.42	10.20	10.85	11.65	12.08
11	12.15	12.12	11.98	11.76	11.24	11.46	11.01	8.45	10.23	10.88	11.65	12.09
12	12.15	12.10	12.00	11.78	11.25	11.39	11.00	8.51	10.25	10.91	11.65	12.11
13	12.15	12.11	12.05	11.80	11.26	11.31	10.97	8.58	10.30	10.94	11.72	12.13
14	12.15	12.14	12.06	11.83	11.25	11.30	10.91	8.63	10.35	10.99	11.75	12.14
15	12.15	12.12	12.07	11.79	11.25	11.27	10.84	8.66	10.37	11.02	11.74	12.15
16	12.17	12.14	12.02	11.78	11.27	11.29	10.52	8.74	10.42	11.04	11.75	12.15
17	12.23	12.12	12.07	11.79	11.27	11.28	10.14	8.85	10.50	11.07	11.75	12.15
18	12.27	12.14	12.05	11.87	11.27	11.26	9.94	8.96	10.53	11.12	11.75	12.22
19	12.26	12.15	12.01	11.91	11.27	11.23	9.81	9.01	10.54	11.16	11.76	12.24
20	12.25	12.14	11.99	11.94	11.31	11.23	9.73	9.03	10.56	11.20	11.76	12.25
21	12.25	12.14	12.03	11.94	11.30	11.22	9.66	9.11	10.59	11.22	11.78	12.22
22	12.28	12.12	12.08	11.94	11.30	11.22	9.59	9.17	10.63	11.23	11.78	12.16
23	12.28	12.09	12.07	11.91	11.28	11.23	9.48	9.22	10.65	11.24	11.78	12.14
24	12.30	12.07	12.07	11.90	11.31	11.23	9.32	9.30	10.66	11.25	11.80	12.15
25	12.29	12.10	12.03	11.89	11.32	11.23	9.20	9.38	10.71	11.27	11.80	12.14
26	12.29	12.07	11.95	11.86	11.38	11.22	9.13	9.43	10.75	11.28	11.80	12.13
27	12.31	12.07	11.93	11.82	11.43	11.21	9.02	9.53	10.80	11.31	11.79	12.13
28	12.32	12.05	11.80	11.80	11.41	11.19	8.98	9.60	10.76	11.34	11.85	12.16
29	12.32	11.97	11.78	11.79	---	11.21	8.96	9.62	10.63	11.40	11.89	12.18
30	12.33	11.99	11.79	11.79	---	11.21	8.89	9.64	10.57	11.44	11.92	12.17
31	12.34	---	11.78	11.79	---	11.20	---	9.73	---	11.45	11.92	---



BROOME COUNTY

420657075583501. Local number, Bm 121.

LOCATION.--Lat 42°06'57", long 75°58'35", Hydrologic Unit 02050103, at Camden and Main Streets, Johnson City. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Water-level recorder on drilled observation well, diameter 6 in, depth 53 ft, cased to 53 ft open end.

METHOD OF MEASUREMENT.--Water stage recorder.

DATUM.--Land-surface datum is 833.62 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 3.42 ft above land-surface datum.

REMARKS.--Well cleaned from 46 ft, to original depth on Oct. 19, 1970. Water level affected by floods of Susquehanna River, and by pumping (average 3.6 Mgal/d in 1980) from municipal well field 1,100 ft south. Digital recorder installed Dec. 6, 1978.

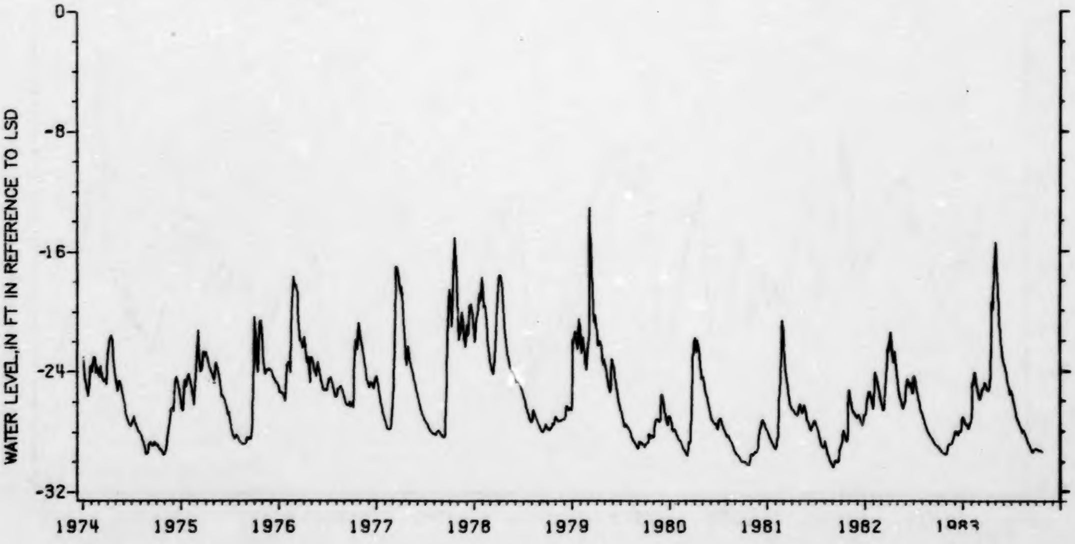
PERIOD OF RECORD.--March 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.73 ft below land-surface datum, Apr. 8, 1956; lowest, 33.47 ft below land-surface datum, Sept. 23, 1965.

EXTREMES FOR CURRENT YEAR.--Highest water level, 15.32 ft below land-surface datum, May. 3-4; lowest 29.51 ft below land-surface datum, Oct. 31-Nov. 1.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.91	29.50	28.18	26.99	27.34	25.52	25.06	16.73	23.22	25.22	27.54	28.65
2	28.94	29.47	28.09	26.98	27.33	25.61	25.13	15.97	23.29	25.30	27.59	28.69
3	28.96	29.45	28.01	27.01	27.24	25.69	25.18	15.46	23.37	25.40	27.62	28.72
4	28.98	29.43	27.95	27.06	26.52	25.75	25.20	15.35	23.46	25.50	27.64	28.76
5	29.00	29.34	27.91	27.12	25.45	25.79	25.20	15.66	23.54	25.60	27.68	28.80
6	29.04	29.21	27.88	27.18	24.83	25.80	25.22	16.26	23.59	25.70	27.72	28.85
7	29.08	29.06	27.90	27.24	24.64	25.77	25.26	16.91	23.65	25.79	27.76	28.89
8	29.11	28.94	27.94	27.31	24.64	25.74	25.24	17.52	23.71	25.87	27.81	28.93
9	29.15	28.87	27.95	27.35	24.72	25.65	25.14	17.90	23.79	25.95	27.87	28.97
10	29.18	28.83	27.97	27.38	24.84	25.56	25.04	18.19	23.89	26.03	27.93	29.01
11	29.20	28.81	28.00	27.42	24.83	25.45	24.83	18.60	23.99	26.10	27.99	29.05
12	29.23	28.81	28.03	27.44	24.52	25.30	24.59	19.03	24.09	26.17	28.05	29.08
13	29.25	28.81	28.08	27.43	24.25	25.18	24.44	19.43	24.20	26.26	28.04	29.12
14	29.27	28.79	28.13	27.42	24.03	25.10	24.39	19.80	24.33	26.35	27.90	29.16
15	29.29	28.77	28.18	27.45	24.06	25.08	24.38	20.13	24.46	26.43	27.83	29.19
16	29.31	28.75	28.21	27.49	24.19	25.09	23.54	20.41	24.59	26.50	27.83	29.23
17	29.32	28.76	28.16	27.53	24.33	25.09	21.38	20.66	24.72	26.58	27.87	29.26
18	29.33	28.78	28.01	27.58	24.49	25.08	19.95	20.92	24.81	26.65	27.93	29.28
19	29.34	28.79	27.92	27.64	24.64	25.07	19.35	21.17	24.86	26.77	27.99	29.27
20	29.35	28.80	27.88	27.70	24.76	25.06	19.31	21.41	24.90	26.92	28.03	29.28
21	29.37	28.80	27.90	27.74	24.86	25.00	19.52	21.64	24.94	27.01	28.07	29.29
22	29.38	28.78	27.92	27.76	24.97	24.91	19.74	21.82	25.01	27.08	28.10	29.25
23	29.39	28.72	27.94	27.76	25.05	24.78	19.82	21.99	25.10	27.12	28.16	29.21
24	29.39	28.64	27.95	27.74	25.12	24.70	19.64	22.15	25.20	27.15	28.21	29.17
25	29.39	28.55	27.93	27.65	25.18	24.71	18.76	22.27	25.31	27.19	28.27	29.13
26	29.40	28.47	27.85	27.53	25.27	24.78	17.65	22.41	25.41	27.22	28.33	29.10
27	29.42	28.41	27.66	27.43	25.35	24.84	17.00	22.57	25.51	27.25	28.39	29.08
28	29.43	28.36	27.45	27.38	25.43	24.90	16.86	22.74	25.53	27.29	28.44	29.08
29	29.45	28.32	27.27	27.35	---	24.97	17.09	22.87	25.36	27.35	28.49	29.07
30	29.48	28.27	27.13	27.33	---	24.98	17.20	22.99	25.24	27.42	28.55	29.05
31	29.50	---	27.03	27.32	---	25.00	---	23.12	---	27.48	28.60	---



420530078445201. Local number, Ct 121.

LOCATION.--Lat 42°05'30", long 78°44'52", Hydrologic Unit 05010001, near Red House.
Owner: State Department of Environmental Conservation.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 53 ft, cased to 53 ft, open end.

METHOD OF MEASUREMENT.--Float tape read by observer.

DATUM.--Land-surface datum is 1,467.08 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.30 ft above land-surface datum.

REMARKS.--Unusually low water levels experienced since July 4, 1969. (Lowest previous measurement was 13.23 ft or 4.03 m, Feb. 1, 1961). Extreme low levels occur during late summer and fall months, with lower than normal levels prevalent throughout the year. A source of nearby pumping has not been determined.

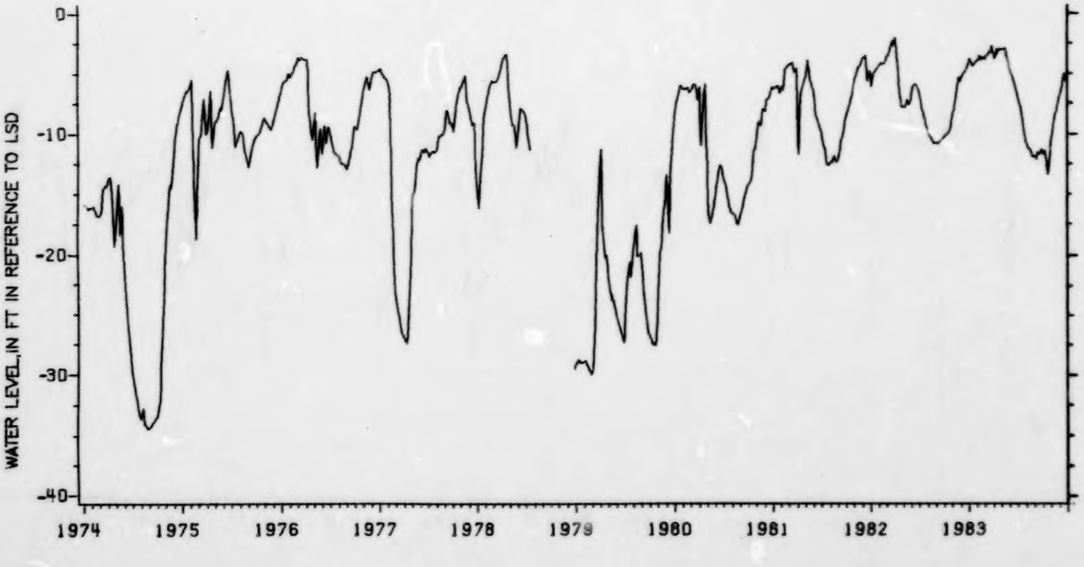
PERIOD OF RECORD.--September 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 2.12 ft below land-surface datum, Apr. 8, 1982; lowest measured 34.87 ft below land-surface datum, Nov. 21, 1972.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 2.77 ft below land-surface datum, Apr. 1; lowest measured, 12.15 ft below land-surface datum, Sept. 13.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1982	9.80	JAN 28, 1983	4.17	APR 18, 1983	3.02	JUL 09, 1983	7.34
NOV 01	9.37	FEB 04	3.93	22	3.27	16	8.01
02	8.99	11	3.82	29	3.08	23	9.01
08	8.35	14	3.59	MAY 06	3.03	30	10.03
12	7.80	18	3.88	14	3.07	AUG 07	10.78
26	5.37	25	3.73	20	2.92	13	11.17
DEC 03	5.66	MAR 06	3.86	24	3.49	20	11.35
10	5.32	11	3.57	27	3.61	27	11.91
18	5.02	18	3.35	JUN 03	4.57	SEP 03	11.94
24	4.90	25	3.24	10	4.97	10	11.90
31	4.34	APR 01	2.77	17	5.43	13	12.15
JAN 07, 1983	3.85	10	3.74	25	5.98	17	11.54
21	4.44	15	3.52	JUL 02	6.72	24	11.68

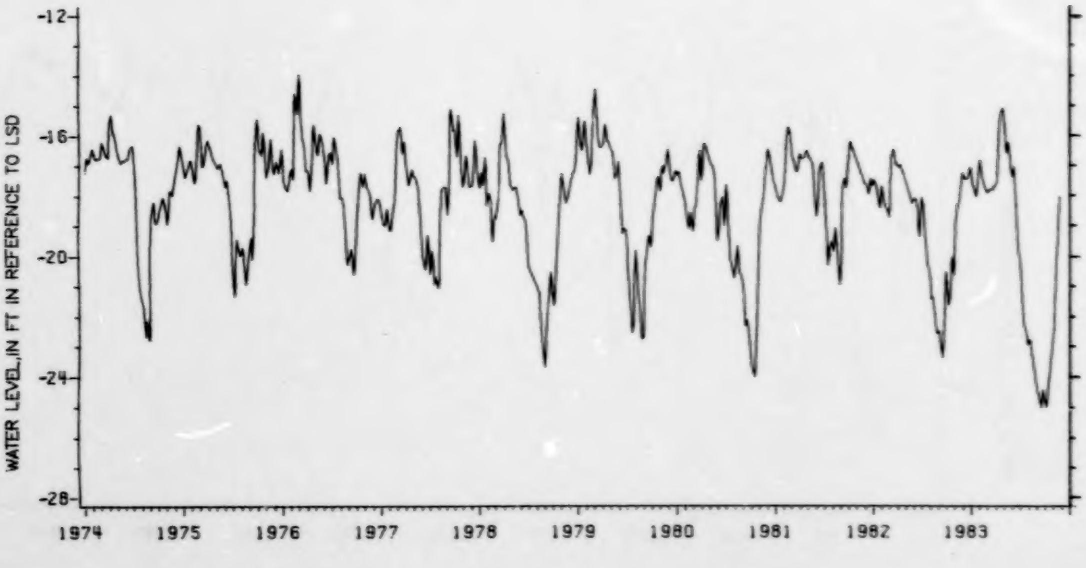


CAYUGA COUNTY

424158076251901. Local number, Cy 7.
LOCATION.--Lat 42°41'58", long 76°25'19", Hydrologic Unit 04140201, near Moravia.
Owner: Earl Van Pelt.
AQUIFER.--Water-table aquifer in clayey gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in, depth 28 ft, cased to 26 ft 1.25-in well point (60-gauze screen 26 ft to 28 ft).
METHOD OF MEASUREMENT.--Taped by observer.
DATUM.--Land-surface datum is 760.71 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.
PERIOD OF RECORD.--December 1965 to current year. Unpublished record for December 1965 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.91 ft below land-surface datum, June 26, 1972; lowest measured, 25.00 ft below land-surface datum, Sept. 19, 1983.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 15.10 below land-surface datum, May 2; lowest measured, 25.00 ft below land-surface datum, Sept. 19.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1982	20.52	JAN 03, 1983	17.04	APR 11, 1983	17.54	JUL 11, 1983	21.49
13	21.62	10	17.55	18	16.01	18	22.34
18	21.29	17	17.84	25	15.32	25	22.44
25	20.05	24	18.02	MAY 02	15.10	AUG 01	22.94
NOV 01	20.62	FEB 07	16.82	09	15.64	08	22.78
08	18.99	14	17.25	16	16.56	15	23.25
15	18.32	21	17.66	23	16.24	22	23.62
24	18.18	MAR 07	17.90	31	17.05	29	24.03
29	17.59	14	17.83	JUN 06	17.38	SEP 05	24.44
DEC 06	17.24	21	17.76	13	17.04	12	24.65
13	17.42	28	17.79	20	18.47	19	25.00
20	17.42	30	17.70	27	19.74	26	24.41
27	17.38	APR 04	17.69	JUL 04	20.23		



CHAUTAUQUA COUNTY

420326079295801. Local number, Cu 5.

LOCATION.--Lat 42°03'26", long 79°29'58", Hydrologic Unit 05010002, near Panama.
Owner: State Department of Environmental Conservation.

AQUIFER.--Water-table aquifer in till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 33 ft, stone-lined.

METHOD OF MEASUREMENT.--Float tape read by observer.

DATUM.--Altitude of land-surface datum is 1,750 ft, from topographic map. Measuring point: Top of 0.25-in steel-plate well cover, inside shelter door, 0.44 ft below land-surface datum.

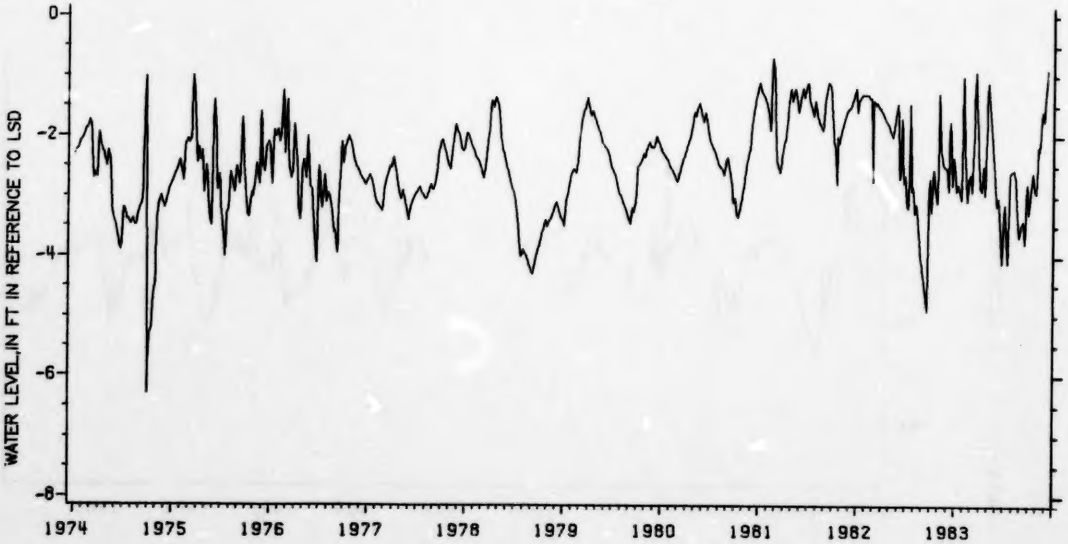
PERIOD OF RECORD.--May 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.70 ft below land-surface datum, Feb. 19, 1981; lowest measured 9.41 ft below land-surface datum, May 24, 1949.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.91 ft below land-surface datum, Mar. 21; lowest measured, 4.10 ft below land-surface datum, June 27, July 18.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1982	3.25	DEC 30, 1982	2.35	MAR 21, 1983	0.91	JUN 27, 1983	4.10
14	2.55	JAN 06, 1983	2.90	29	2.24	JUL 04	3.13
21	2.85	13	2.80	APR 04	2.85	18	4.10
28	3.10	20	2.90	11	2.89	25	2.60
NOV 04	1.28	27	3.05	19	2.49	AUG 08	2.54
11	2.20	FEB 03	1.00	25	2.97	15	2.73
18	2.45	10	2.60	MAY 05	1.11	22	3.30
25	2.50	15	3.06	25	2.46	29	3.68
DEC 02	2.53	21	2.72	31	2.87	SEP 05	3.50
09	2.90	MAR 01	2.62	JUN 05	3.15	12	3.40
16	1.75	07	2.91	13	3.02	19	3.78
23	2.80	14	1.92	23	3.90	26	2.78



CHAUTAUQUA COUNTY

420815079121401. Local number, Cu 10.

LOCATION.--Lat 42°08'15", long 79°12'14", Hydrologic Unit 05010002, at Falconer.
Owner: City of Jamestown.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 12 in to 10 in, depth 232 ft, filled in from original depth of 240 ft, cased 12-in 0 ft to 130 ft, 10-in 130 ft to 240 ft, slotted 130 ft to 144 ft, open end.

METHOD OF MEASUREMENT.--Taped by observer.

DATUM.--Altitude of land-surface datum is 1,250 ft, from topographic map. Measuring point: Top of shelter base, 5.44 ft above land-surface datum.

REMARKS.--Water level affected by pumping (average 5.2 Mgal/d in 1977) from municipal well field. Digital recorder installed Dec. 18, 1978, removed Sept. 16, 1982.

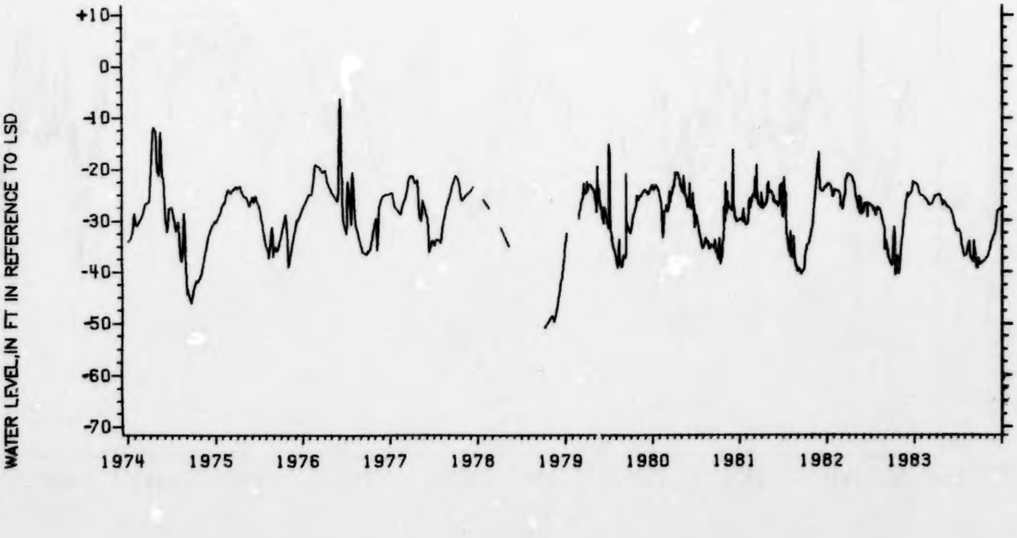
PERIOD OF RECORD.--November 1939 to September 1943, August 1946 to current year. Unpublished record for November 1939 to September 1943, August 1946 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.2 ft below land-surface datum, Mar. 14, 1942; lowest, 66.6 ft below land-surface datum, Nov. 3, 1971.

EXTREMES FOR CURRENT YEAR.--Highest water level, 22.46 ft below land-surface datum, Dec. 30; lowest, 40.62 ft, Oct. 15.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1982	38.86	JAN 05, 1983	22.66	APR 15, 1983	24.94	JUL 15, 1983	32.66
10	31.16	10	22.76	20	24.99	20	34.54
15	40.62	15	23.06	25	25.33	25	35.93
20	40.01	20	23.36	30	27.09	30	36.95
25	36.67	25	24.56	MAY 05	26.43	AUG 05	36.90
30	40.46	30	25.16	10	26.55	10	36.50
NOV 05	36.56	FEB 05	25.16	15	26.84	15	35.38
10	34.66	15	25.46	20	27.40	20	34.04
15	31.96	20	25.86	25	27.36	25	37.16
20	30.36	25	26.06	30	27.70	31	37.75
25	28.26	MAR 05	26.86	JUN 05	28.04	SEP 05	38.12
30	26.16	10	27.06	10	28.60	10	33.92
DEC 05	24.76	15	26.77	15	29.55	15	37.04
10	25.26	20	26.82	20	30.80	20	39.26
15	24.86	25	26.23	25	31.56	25	39.46
20	24.66	30	25.36	30	32.09	30	37.36
25	24.42	APR 05	25.13	JUL 05	31.75		
30	22.46	10	25.13	10	31.96		



CHAUTAUQUA COUNTY

420748079062701. Local number, Cu 104.

LOCATION.--Lat 42°07'48", long 79°06'27", Hydrologic Unit 05010002, 59 ft west of Conewango Creek, 20 ft north of County Highway 325 and 1 mi southeast of Poland Center.

Owner: City of Jamestown.

AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Water-level recorder on drilled observation well, diameter 6 in, depth 79 ft, screened 69 ft to 79 ft.

METHOD OF MEASUREMENT.--Water stage recorder.

DATUM.--Altitude of land-surface datum is 1,240 ft, from topographic map. Measuring point: Chisled marks at top of metal shelter base, 6.22 ft above land-surface datum.

REMARKS.--This well drilled by the U.S.G.S. and used for a pump test on Oct. 31 to Nov. 2, 1962. The water level is affected by pumping from the municipal well field by the City of Jamestown water works and by river stages in Conewango Creek which is within 100 ft of the wells. Records are considered good.

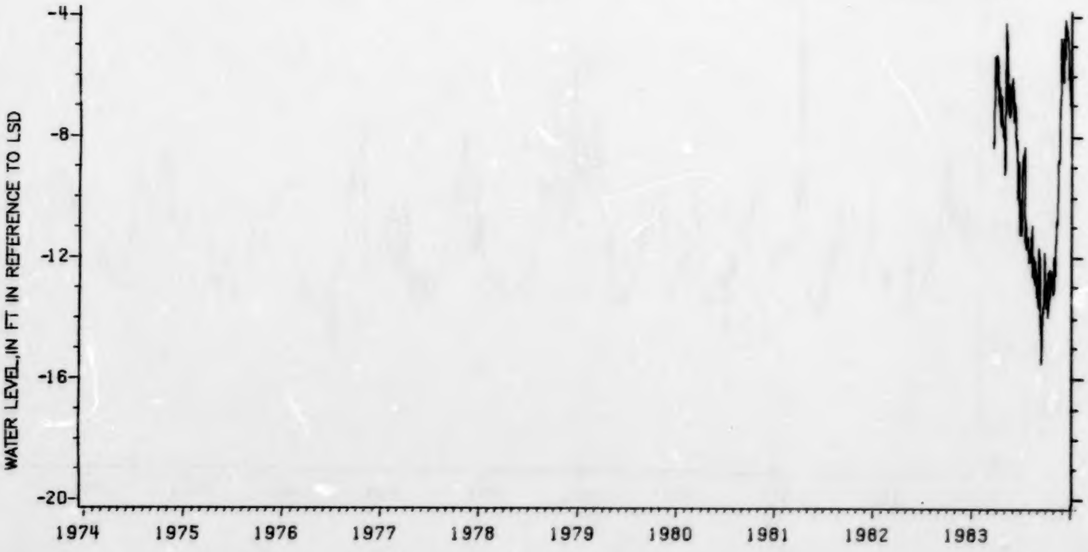
PERIOD OF RECORD.--March to September 1983.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.67 ft below land-surface datum, May 7, 1983; lowest, 18.35 ft below land-surface datum, June 29, 1983.

EXTREMES FOR CURRENT YEAR.--Highest water level during period March to September, 3.67 ft below land-surface datum, May 7; lowest, 18.35 ft, below land-surface datum, June 29.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.32	7.22	6.66	11.20	11.67	13.24
2							5.21	7.14	7.46	10.69	11.70	12.61
3							5.38	5.71	7.08	9.19	12.06	12.43
4							6.13	5.81	6.81	8.55	12.06	12.06
5							6.25	5.59	6.90	8.58	12.01	11.60
6							6.47	4.49	7.70	9.16	11.92	12.00
7							6.73	4.18	7.94	8.63	11.33	12.43
8							6.84	5.07	7.43	8.51	10.86	13.25
9							6.93	5.03	7.26	8.76	11.56	14.18
10							6.29	5.93	8.07	8.25	12.06	14.17
11							6.84	6.39	8.43	9.25	11.94	13.87
12							7.00	6.81	8.08	9.89	11.99	14.69
13							7.39	7.18	8.05	11.44	12.58	14.95
14							7.61	6.68	9.55	10.77	12.07	15.44
15						8.13	7.60	6.21	9.99	10.68	11.90	14.86
16						8.19	6.72	6.46	9.77	10.89	12.08	14.76
17						8.30	6.60	6.98	9.42	10.97	12.12	14.35
18						8.25	7.05	7.29	9.17	11.52	12.62	13.58
19						8.08	7.21	6.98	9.56	11.41	12.49	13.55
20						7.18	7.64	6.71	8.78	11.63	12.82	13.71
21						7.13	7.71	7.19	9.20	11.64	12.08	13.76
22						6.62	7.87	6.33	9.96	11.62	12.20	13.77
23						6.21	7.97	6.43	11.04	11.28	12.38	13.72
24						5.97	7.60	6.77	11.20	11.44	12.49	12.64
25						5.81	7.85	6.21	11.01	11.27	12.53	11.76
26						5.27	8.07	6.55	9.99	11.48	12.67	12.39
27						5.75	8.60	6.25	10.44	11.60	13.24	12.82
28						5.81	9.19	6.00	10.67	11.70	13.16	13.10
29						5.76	8.99	6.13	10.80	11.86	12.46	13.58
30						5.70	8.46	6.10	10.92	12.10	12.92	13.55
31						6.23	---	6.98	---	11.71	13.58	---

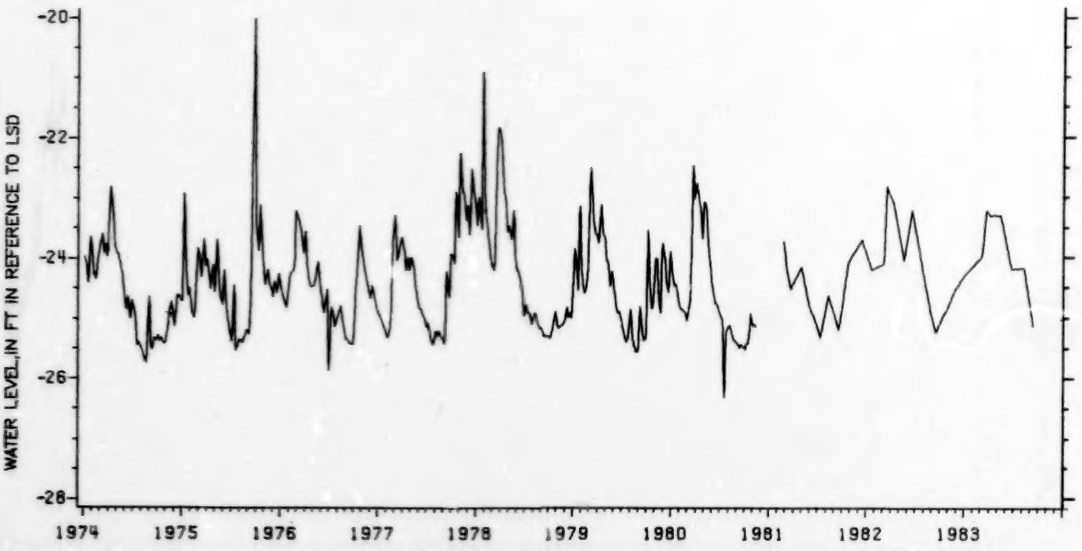


CHEMUNG COUNTY

420829076484801. Local number, Cm 46.
LOCATION.--Lat 42°08'29", long 76°48'48", Hydrologic Unit 02050105, near Horseheads.
Owner: Original owner deceased.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 34 ft, cased to 34 ft, open end.
METHOD OF MEASUREMENT.--Float tape readings.
DATUM.--Land-surface datum is 885.78 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe flange, 3.44 ft above land-surface datum.
REMARKS.--Water level affected by floods of Newtown Creek.
PERIOD OF RECORD.--October 1955 to current year. Unpublished record for October 1955 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.93 ft below land-surface datum, April 25, 1961; lowest measured, 26.30 ft below land-surface datum, July 18, 1980.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 23.21 ft below land-surface datum, Mar. 22; lowest measured, 25.11 ft below land-surface datum, Sept. 14.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1982	24.91	JAN 03, 1983	24.27	APR 13, 1983	23.29	AUG 12, 1983	24.16
27	24.88	MAR 09	23.96	MAY 16	23.29	SEP 14	25.11
NOV 29	24.51	22	23.21	JUN 23	24.17		



CHENANGO COUNTY

421556075281602. Local number, Cn 12.

LOCATION.--Lat 42°15'56", long 75°28'16", Hydrologic Unit 02050101, 400 ft south of intersection of County Highways 39 and 12, 0.5 mi east of Susquehanna River, and 2.0 mi south of Bainbridge.
Owner: Ilse Maehlman.

AQUIFER.--Water-table aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Water-level recorder on drilled observation well, diameter 6 in, depth 13 ft, cased to 13 ft gravel-packed, open end.

METHOD OF MEASUREMENT.--Water stage recorder.

DATUM.--Land-surface datum is 979.28 ft National Geodetic Vertical Datum of 1929. Measuring point: File mark at top of shelter base, 1.37 ft above land-surface datum.

REMARKS.--This well drilled April 1974 as a replacement for 421556075281601 (local number Cn 11), located 90 ft north, which has a period of record from October 1965 to September 1972 (unpublished).

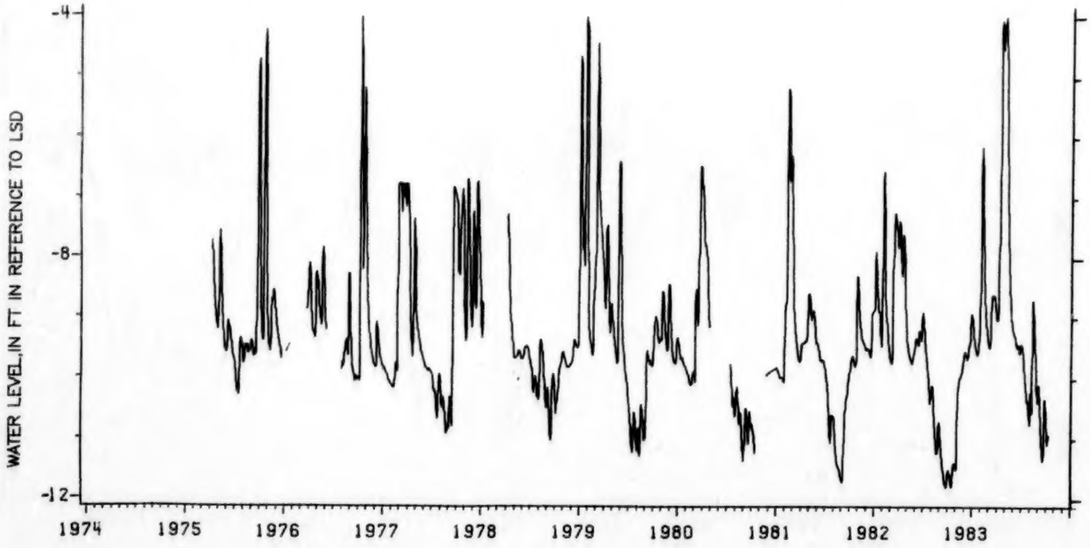
PERIOD OF RECORD.--April 1975 to current year. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.79 ft below land-surface datum, Mar. 7, 1979; lowest, 11.81 ft below land-surface datum, Sept. 26-29, 1982.

EXTREMES FOR CURRENT YEAR.--Highest water level, 3.73 ft below land-surface datum, May 4; lowest, 11.80 ft below land-surface datum, Oct. 18-20.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.72	11.46	9.74	8.96	9.26	9.26	8.81	4.23	9.12	9.49	10.65	10.39
2	11.67	11.48	9.69	8.92	9.24	9.31	8.86	4.11	9.16	9.45	10.73	10.37
3	11.61	11.50	9.65	8.92	9.16	9.35	8.91	3.82	9.19	9.43	10.77	10.27
4	11.57	11.52	9.61	8.93	8.46	9.38	8.96	3.73	9.22	9.43	10.63	10.17
5	11.54	11.52	9.58	8.97	7.34	9.42	9.00	3.79	9.24	9.44	10.38	10.11
6	11.52	11.48	9.57	9.02	6.47	9.45	9.02	4.01	9.27	9.46	10.26	10.11
7	11.52	11.21	9.56	9.07	6.16	9.48	9.03	4.36	9.29	9.48	10.23	10.15
8	11.52	10.74	9.56	9.12	6.16	9.50	9.03	4.79	9.29	9.51	10.24	10.24
9	11.54	10.44	9.56	9.18	6.29	9.50	9.02	5.24	9.29	9.55	10.29	10.35
10	11.57	10.30	9.57	9.24	6.53	9.50	8.98	5.62	9.29	9.59	10.38	10.47
11	11.60	10.22	9.58	9.31	6.84	9.48	8.80	5.95	9.31	9.63	10.49	10.59
12	11.64	10.17	9.59	9.36	7.20	9.44	8.35	6.23	9.33	9.68	10.57	10.69
13	11.67	10.14	9.61	9.40	7.49	9.30	7.92	6.52	9.36	9.72	10.18	10.80
14	11.70	10.12	9.64	9.44	7.73	9.08	7.70	6.82	9.39	9.78	9.53	10.88
15	11.73	10.09	9.66	9.48	7.94	8.89	7.65	7.12	9.42	9.85	8.92	10.96
16	11.76	10.05	9.68	9.50	8.13	8.77	7.13	7.40	9.46	9.94	8.72	11.03
17	11.78	10.02	9.69	9.53	8.31	8.69	5.51	7.61	9.49	10.02	8.71	11.10
18	11.80	9.99	9.66	9.56	8.47	8.64	4.24	7.79	9.50	10.06	8.78	11.15
19	11.80	9.98	9.61	9.58	8.61	8.62	3.84	7.92	9.49	10.06	8.90	11.20
20	11.78	9.97	9.55	9.60	8.73	8.61	3.78	8.06	9.48	10.09	9.02	11.25
21	11.72	9.97	9.50	9.61	8.82	8.63	3.87	8.19	9.46	10.15	9.13	11.30
22	11.64	9.97	9.47	9.61	8.90	8.65	4.06	8.32	9.44	10.24	9.22	11.33
23	11.56	9.96	9.45	9.62	8.96	8.65	4.27	8.45	9.44	10.33	9.33	11.36
24	11.50	9.95	9.44	9.62	9.03	8.64	4.50	8.56	9.46	10.38	9.43	11.25
25	11.45	9.92	9.44	9.60	9.08	8.61	4.54	8.66	9.48	10.37	9.54	10.83
26	11.42	9.88	9.44	9.56	9.13	8.60	4.12	8.74	9.50	10.35	9.65	10.52
27	11.41	9.84	9.41	9.49	9.17	8.60	3.87	8.82	9.53	10.35	9.77	10.39
28	11.40	9.82	9.35	9.43	9.21	8.62	3.83	8.89	9.57	10.36	9.91	10.34
29	11.41	9.80	9.25	9.37	---	8.66	3.93	8.95	9.59	10.39	10.05	10.35
30	11.42	9.77	9.12	9.32	---	8.71	4.12	9.02	9.55	10.47	10.18	10.40
31	11.44	---	9.02	9.28	---	8.76	---	9.07	---	10.56	10.31	---

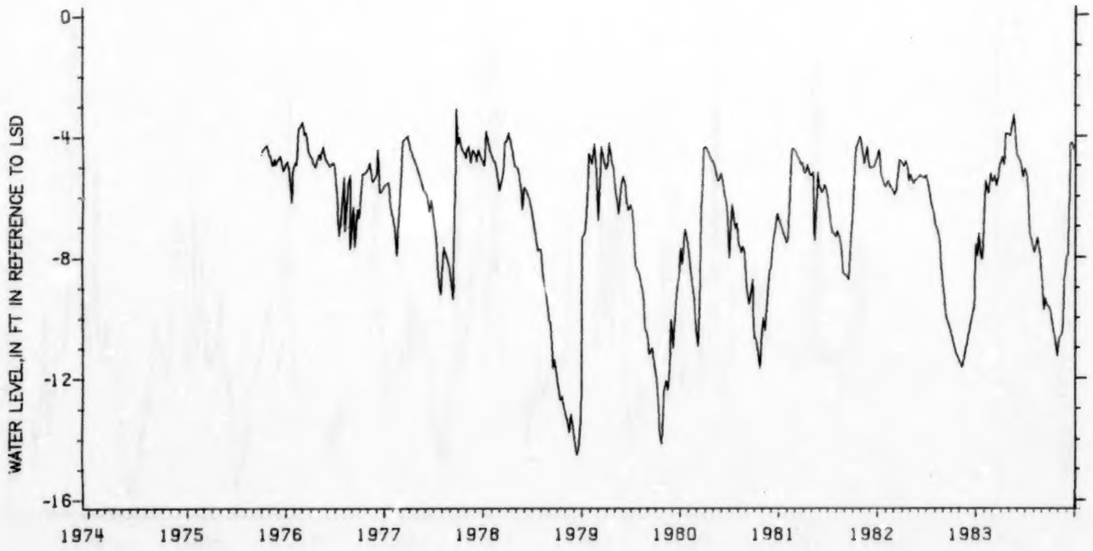


CORTLAND COUNTY

423541076114701. Local number, C 102.
LOCATION.--Lat 42°35'41", long 76°11'47", Hydrologic Unit 02050102, at Municipal Water Works, Cortland. Owner: City of Cortland.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Driven unused well, diameter 1.25 in, depth 45 ft, 1.25 in well point.
METHOD OF MEASUREMENT.--Taped by U.S.G.S. personnel.
DATUM.--Land-surface datum is 1136.59 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 2.0 ft above land-surface datum.
REMARKS.--Water level is affected by pumping from nearby municipal supply wells. This well is a replacement for 423539076114801 (local number C 19), located 80 ft southwest, which has a period of record from February 1947 to May 1976.
PERIOD OF RECORD.--October 1975 to current year. Unpublished record for October 1975 to September 1977 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.07 ft below land-surface datum, September 25, 1977; lowest measured, 14.50 ft below land-surface datum, Dec. 14, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.26 ft below land-surface datum, May 24; lowest measured, 11.60 ft below land-surface datum, Nov. 12.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22, 1982	11.17	FEB 17, 1983	5.89	APR 29, 1983	3.90	JUL 21, 1983	7.18
NOV 12	11.60	25	5.23	MAY 09	3.97	29	7.57
DEC 22	9.70	MAR 04	5.50	16	3.61	AUG 05	7.83
27	9.68	11	5.30	24	3.26	12	7.64
31	7.56	17	5.63	JUN 01	4.61	19	7.35
JAN 07, 1983	7.91	25	5.30	15	4.84	26	7.84
14	7.22	30	4.93	24	5.34	SEP 01	8.59
20	7.97	APR 09	4.67	JUL 01	5.10	09	9.72
27	8.04	15	4.93	08	5.20	16	9.34
FEB 05	5.45	21	3.92	14	6.00	23	9.59



GENESEE COUNTY

425516078032001. Local number, Gs 2.

LOCATION.--Lat 42°55'16", long 78°03'20", Hydrologic Unit 04130003, near Pavilion.
Owner: Angeline C. Rigoni.

AQUIFER.--Water-table aquifer in till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 21 ft, stone-lined.

METHOD OF MEASUREMENT.--Float tape read by observer.

DATUM.--Land-surface datum is 1,032.05 ft National Geodetic Vertical Datum of 1929. Measuring point: Painted arrow on top edge of concrete well cover, inside shelter door, 1.12 ft above land-surface datum.

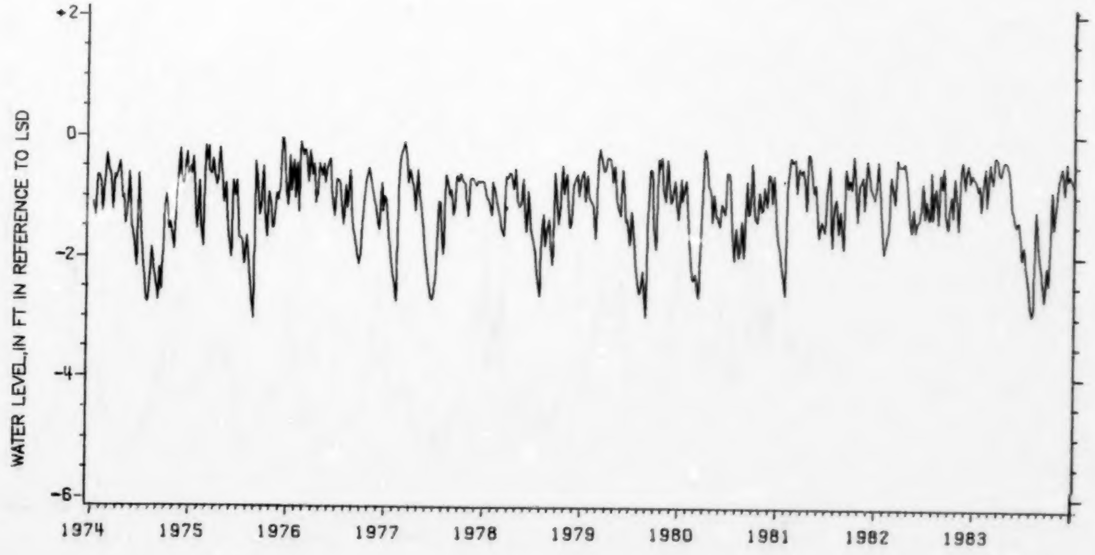
PERIOD OF RECORD.--September 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.10 ft below land-surface datum, May 14, 1960, Feb. 28, 1971, and Feb. 13, 1976; lowest measured 6.55 ft below land-surface datum, Feb. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.30 ft below land-surface datum, Mar. 12; lowest measured, 2.91 ft below land-surface datum, July 30.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1982	0.93	JAN 11, 1983	0.84	APR 09, 1983	0.46	JUL 09, 1983	2.10
09	1.28	15	0.76	16	0.37	16	2.40
16	0.64	22	1.17	23	0.37	23	2.70
23	1.15	29	0.67	30	0.43	30	2.91
30	1.49	FEB 05	0.47	MAY 07	0.56	AUG 06	2.84
NOV 08	0.52	12	1.09	14	1.08	15	1.18
13	0.38	22	0.40	21	1.18	20	1.61
20	0.82	26	0.56	28	1.36	26	1.94
27	0.52	MAR 05	0.73	JUN 04	1.44	SEP 03	2.17
DEC 04	0.42	12	0.30	11	1.35	10	2.43
11	0.72	22	0.33	18	1.68	17	2.68
18	0.57	26	0.53	25	1.98	24	2.11
JAN 03, 1983	0.72	APR 05	0.60	JUL 02	1.76		



MADISON COUNTY

430056075354102. Local number, M 178.

LOCATION.--Lat 43°00'56", long 75°35'41", Hydrologic Unit 04140202, at Valley Mills.
Owner: Donald L. Greene.

AQUIFER.--Water-table aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Water-level recorder on drilled observation well, diameter 6 in, depth 16 ft cased to 16 ft, open end.

METHOD OF MEASUREMENT.--Water stage recorder.

DATUM.--Land-surface datum is 573.76 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.06 ft above land-surface datum.

REMARKS.--This well drilled April 1974 as a replacement for 430056075354101 (local number M 177), located 10 ft west, which has a period of record from October 1965 to September 1973 (unpublished).

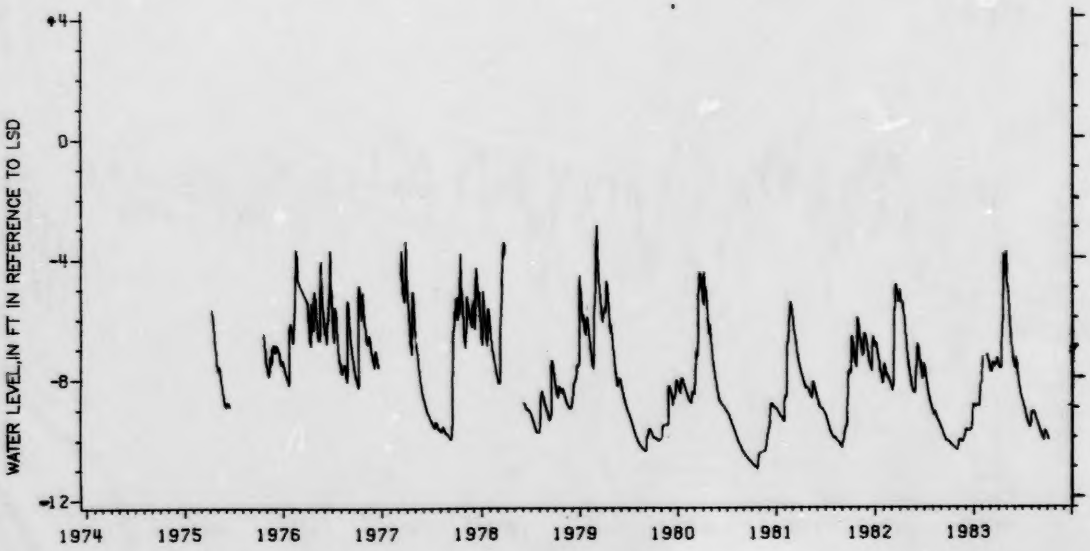
PERIOD OF RECORD.--April 1975 to current year. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.60 ft below land-surface datum, Mar. 5, 1979; lowest, 10.97 ft below land-surface datum, Oct. 24, 25, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level, 3.72 ft below land-surface datum, May 2-3; lowest, 10.36 ft below land-surface datum, Oct. 31-Nov. 4.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.07	10.36	9.82	8.85	8.11	7.50	7.31	4.14	7.46	8.63	9.61	9.59
2	10.08	10.36	9.79	8.82	8.08	7.54	7.35	3.76	7.50	8.66	9.45	9.61
3	10.10	10.36	9.73	8.82	7.86	7.60	7.37	3.76	7.55	8.70	9.30	9.63
4	10.11	10.36	9.71	8.84	7.27	7.66	7.43	3.99	7.59	8.74	9.22	9.66
5	10.13	10.26	9.69	8.84	---	7.71	7.49	4.29	7.65	8.77	9.18	9.69
6	10.14	10.17	9.67	8.85	---	7.75	7.53	4.58	7.66	8.81	9.12	9.71
7	10.15	10.11	9.67	8.86	---	7.76	7.56	4.78	7.42	8.85	9.09	9.73
8	10.17	10.07	9.67	8.89	---	7.74	7.61	4.93	7.31	8.89	9.08	9.76
9	10.17	10.05	9.68	8.91	---	7.75	7.66	4.95	7.33	8.92	9.10	9.78
10	10.18	10.04	9.68	8.92	---	7.77	7.67	5.11	7.39	8.95	9.13	9.81
11	10.19	10.03	9.69	8.90	---	7.71	7.60	5.26	7.47	8.98	9.16	9.83
12	10.20	10.02	9.71	8.88	---	7.57	7.59	5.42	7.56	9.02	9.16	9.85
13	10.21	10.03	9.73	8.87	---	7.50	7.62	5.57	7.64	9.06	9.10	9.88
14	10.22	10.04	9.74	8.86	---	7.47	7.64	5.72	7.72	9.10	9.07	9.90
15	10.23	10.04	9.75	8.84	---	7.46	7.65	5.87	7.78	9.14	9.06	9.93
16	10.25	10.06	9.75	8.82	---	7.49	7.27	6.00	7.86	9.18	9.08	9.95
17	10.26	10.07	9.74	8.84	---	7.52	6.48	6.14	7.92	9.22	9.11	9.98
18	10.26	10.08	9.71	8.85	---	7.54	6.19	6.29	7.99	9.26	9.14	10.00
19	10.26	10.09	9.69	8.89	---	7.53	6.12	6.41	8.04	9.30	9.18	10.03
20	10.26	10.10	9.67	8.90	---	7.59	6.11	6.50	8.10	9.34	9.21	10.05
21	10.27	10.11	9.68	8.91	---	7.60	6.08	6.60	8.16	9.38	9.25	10.05
22	10.27	10.11	9.69	8.92	---	7.54	5.77	6.70	8.22	9.42	9.29	9.91
23	10.28	10.08	9.70	8.92	7.20	7.48	5.02	6.79	8.28	9.46	9.32	9.82
24	10.29	10.03	9.70	8.84	7.24	7.46	4.48	6.89	8.33	9.49	9.35	9.78
25	10.30	10.00	9.65	8.70	7.30	7.47	3.87	6.98	8.38	9.49	9.38	9.75
26	10.31	9.97	9.58	8.48	7.37	7.50	3.93	7.05	8.44	9.51	9.41	9.75
27	10.32	9.95	9.48	8.28	7.43	7.51	4.18	7.14	8.49	9.53	9.44	9.75
28	10.33	9.93	9.37	8.18	7.47	7.51	4.39	7.24	8.54	9.55	9.47	9.77
29	10.33	9.90	9.21	8.12	---	7.46	4.59	7.31	8.57	9.58	9.50	9.80
30	10.34	9.87	9.04	8.10	---	7.37	4.26	7.38	8.60	9.61	9.53	9.82
31	10.35	---	8.92	8.11	---	7.32	---	7.44	---	9.63	9.56	---



NIAGARA COUNTY

430655079022001. Local number, Ni 69.

LOCATION.--Lat 43°06'55", long 79°02'20", Hydrologic Unit 04120104, 20th Street and Beech Avenue, Niagara Falls. Owner: City of Niagara Falls.

AQUIFER.--Confined and water-table aquifer in Lockport Dolomite of Middle Silurian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in to 6 in, depth 36 ft, cased 8-in 0 ft to 17 ft, open hole 6-in 17 ft to 36 ft.

METHOD OF MEASUREMENT.--Taped by observer.

DATUM.--Land-surface datum is 596.21 ft U.S. Lake Survey datum (levels by Uhl, Hall, and Rich). Measuring point: Top of 2-in opening in 6 in plug of 8 in extended casing, 3.60 ft above land-surface datum.

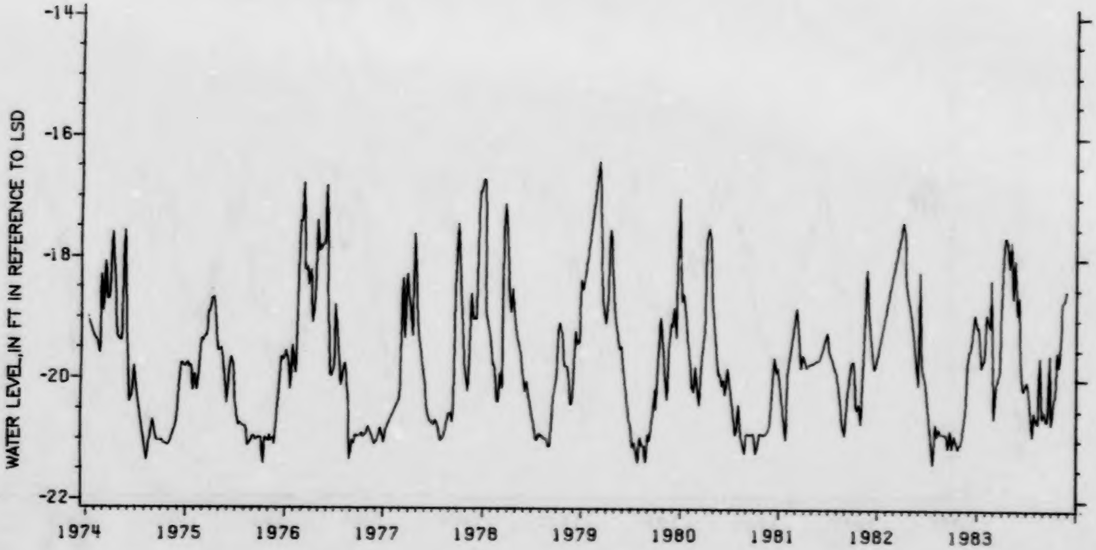
PERIOD OF RECORD.--October 1958 to current year. Unpublished record for October 1958 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.39 ft below land-surface datum, Mar. 5, 1979; lowest measured, 22.21 ft below land-surface datum, Aug. 3, 1959.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 17.62 ft below land-surface datum, Apr. 18; lowest measured, 21.10 ft below land-surface datum, Oct. 4, 25.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1982	21.10	JAN 10, 1983	19.10	APR 11, 1983	17.80	JUL 18, 1983	20.50
12	20.90	17	19.76	18	17.62	25	20.90
18	21.00	24	19.67	25	17.66	AUG 01	20.50
25	21.10	31	19.64	MAY 02	18.10	08	20.65
NOV 01	21.05	FEB 07	18.90	09	17.70	15	20.68
08	21.03	14	19.00	16	18.62	22	19.60
15	20.70	22	19.10	23	18.00	29	20.60
22	20.50	28	19.20	31	18.90	SEP 06	20.49
29	19.70	MAR 07	20.60	JUN 06	18.60	12	20.65
DEC 06	19.50	14	20.04	13	19.80	19	20.65
13	19.48	21	20.00	20	20.14	26	19.56
27	18.90	28	19.80	JUL 06	20.00		
JAN 04, 1983	19.10	APR 04	18.70	11	20.20		



NIAGARA COUNTY

431308078544501. Local number, N1 70.

LOCATION.--Lat 43°13'08", long 78°54'45", Hydrologic Unit 04130001, near Ransomville.
Owner: Calvin C. Schultz.

AQUIFER.--Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 4 ft to 5 ft (reported), stone-lined, depth 24 ft.

METHOD OF MEASUREMENT.--Float tape read by observer.

DATUM.--Altitude of land-surface datum is 335 ft, from topographic map. Measuring point: Top of 1-in hole in steel cover, at land-surface datum.

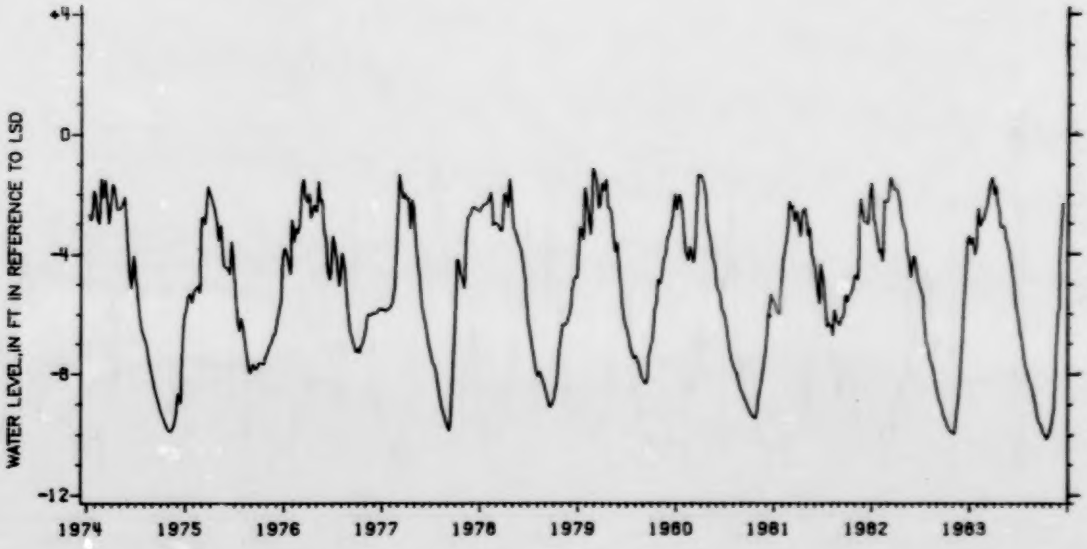
PERIOD OF RECORD.--August 1972 to current year. Unpublished record for August 1972 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.14 ft below land-surface datum, Feb. 24, 1979; lowest measured, 9.97 ft below land-surface datum, Nov. 6, 1982.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.42 ft below land-surface datum, Mar. 29; lowest measured, 9.97 ft below land-surface datum, Nov. 6.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1982	9.49	JAN 02, 1983	3.41	APR 06, 1983	2.01	JUL 02, 1983	6.04
09	9.66	09	3.66	11	1.71	09	6.52
16	9.78	15	3.46	16	2.23	16	6.95
23	9.89	23	4.00	23	2.48	24	7.43
30	9.92	29	3.64	30	3.08	30	7.75
NOV 06	9.97	FEB 05	2.46	MAY 07	3.07	AUG 06	7.95
13	9.43	12	3.04	14	3.06	13	8.19
20	8.75	19	2.91	21	3.51	20	8.40
27	8.13	26	2.82	28	3.75	27	8.73
DEC 05	6.80	MAR 05	2.50	JUN 04	4.02	SEP 03	8.95
11	5.74	12	2.27	11	4.62	10	9.35
18	5.05	20	1.74	18	5.03	17	9.58
26	3.55	29	1.42	25	5.74	24	9.67

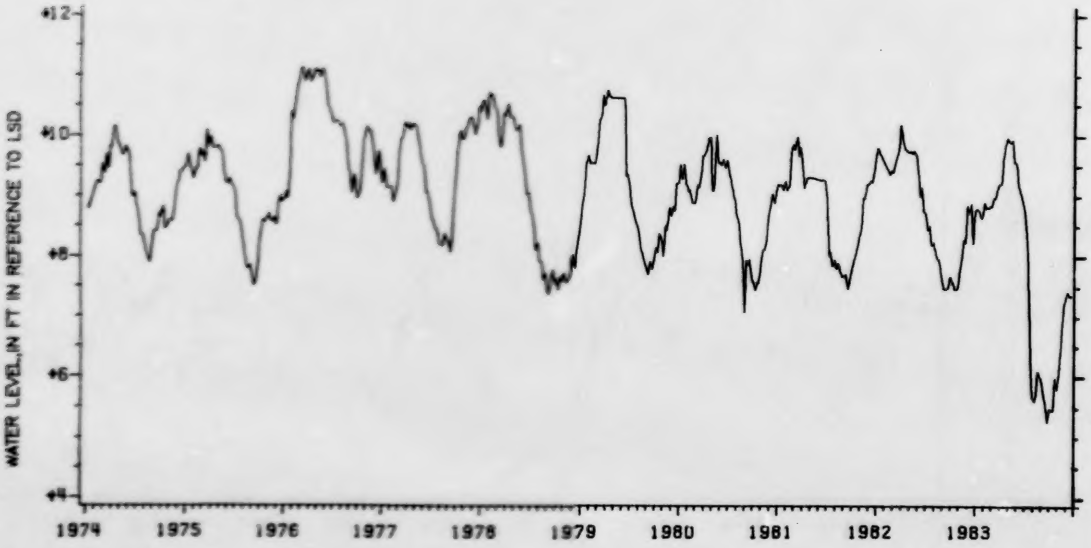


ONTARIO COUNTY

425840077133901. Local number, Ot 900.
LOCATION.--Lat 42°58'40", long 77°13'39", Hydrologic Unit 04140201, at New York State Thruway Interchange 43, near Manchester.
Owner: New York State Thruway Authority.
AQUIFER.--Confined aquifer in Camillus Shale of the Salina Group of Late Silurian age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 139 ft, cased to 11 ft, open hole.
METHOD OF MEASUREMENT.--Float tape read by observer.
DATUM.--Land-surface datum is 556.70 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 11.43 ft above land-surface datum.
PERIOD OF RECORD.--May 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 11.14 ft above land-surface datum, Mar. 15, 1976; lowest measured 4.59 ft above land-surface datum, Nov. 11, 1957.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.97 ft above land-surface datum, May 2; lowest measured, 5.26 ft above land-surface datum, Sept. 26.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1982	7.67	JAN 03, 1983	8.77	APR 04, 1983	9.21	JUL 05, 1983	8.78
11	7.57	10	8.81	11	9.22	11	8.52
18	7.48	17	8.78	18	9.57	18	8.06
25	7.47	24	8.68	25	9.82	25	6.30
NOV 01	7.49	31	8.65	MAY 02	9.97	AUG 01	5.69
08	7.74	FEB 07	8.91	09	9.93	08	5.61
15	8.02	14	8.82	16	9.90	15	5.73
22	8.29	21	8.82	23	9.93	22	6.11
29	8.25	28	8.85	30	9.58	29	6.01
DEC 06	8.84	MAR 07	8.85	JUN 06	9.54	SEP 05	5.98
13	8.73	14	8.98	13	9.18	12	5.68
20	8.88	21	8.99	20	9.08	19	5.56
27	8.24	28	9.17	27	8.98	26	5.26

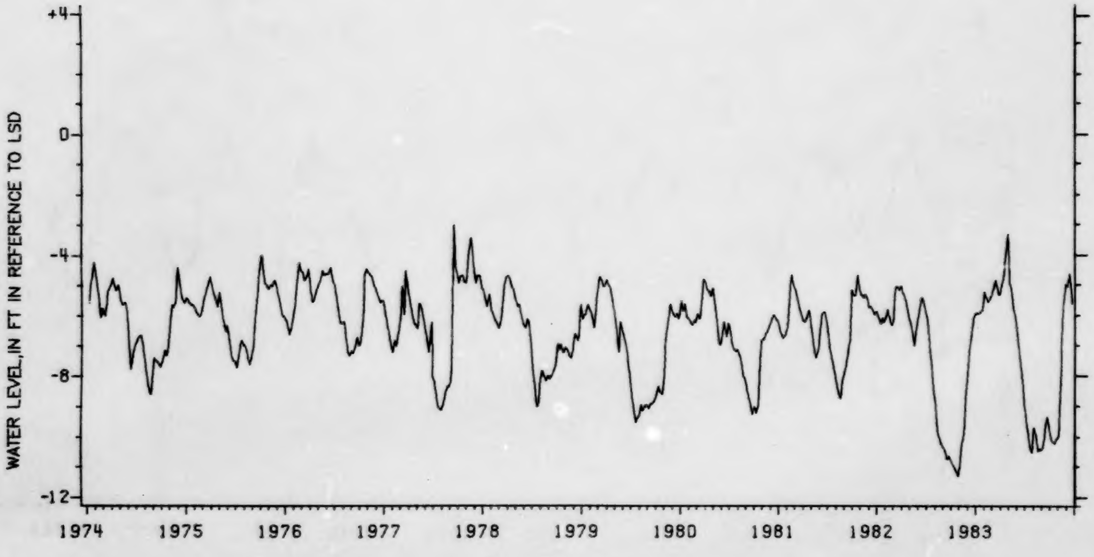


OTSEGO COUNTY

424136075025101. Local number, Og 23.
LOCATION.--Lat 42°41'36", long 75°02'51", Hydrologic Unit 02050101, at "Wild Creek Farm", 0.6 mi northeast of intersection of State Highway 205 and Kallan Road, 2.2 mi north of Hartwick, and 3.2 mi southeast of Oaksville. Owner: Thomas Kallan.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 15 ft, stone-lined.
METHOD OF MEASUREMENT.--Taped by observer.
DATUM.--Land-surface datum is 1,432.44 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole drilled through concrete well cover, at land-surface datum.
PERIOD OF RECORD.--May 1953 to current year. Unpublished record for May 1953 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft below land-surface datum, Apr. 2, 1960, Sept. 19, 1977; lowest measured, 12.66 ft below land-surface datum, Nov. 14, 1964.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.28 ft below land-surface datum, May 2; lowest measured, 11.30 ft below land-surface datum, Oct. 31.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1982	10.72	JAN 02, 1983	5.95	APR 03, 1983	5.30	JUL 10, 1983	9.62
10	10.85	09	5.90	10	4.96	17	9.98
17	11.02	16	5.92	17	4.75	24	10.36
24	11.15	23	5.84	25	4.10	31	10.52
31	11.30	30	5.76	MAY 02	3.28	AUG 07	9.69
NOV 07	10.90	FEB 06	5.22	09	4.90	14	9.98
14	10.35	13	5.39	16	5.12	21	10.45
21	9.90	20	5.50	24	5.75	28	10.40
28	8.70	27	5.40	31	6.10	SEP 04	10.42
DEC 05	7.90	MAR 06	5.25	JUN 12	7.14	11	10.33
12	7.14	13	5.00	19	7.58	18	9.60
19	6.57	20	4.80	26	8.12	25	9.32
26	6.10	28	5.26	JUL 03	8.88		

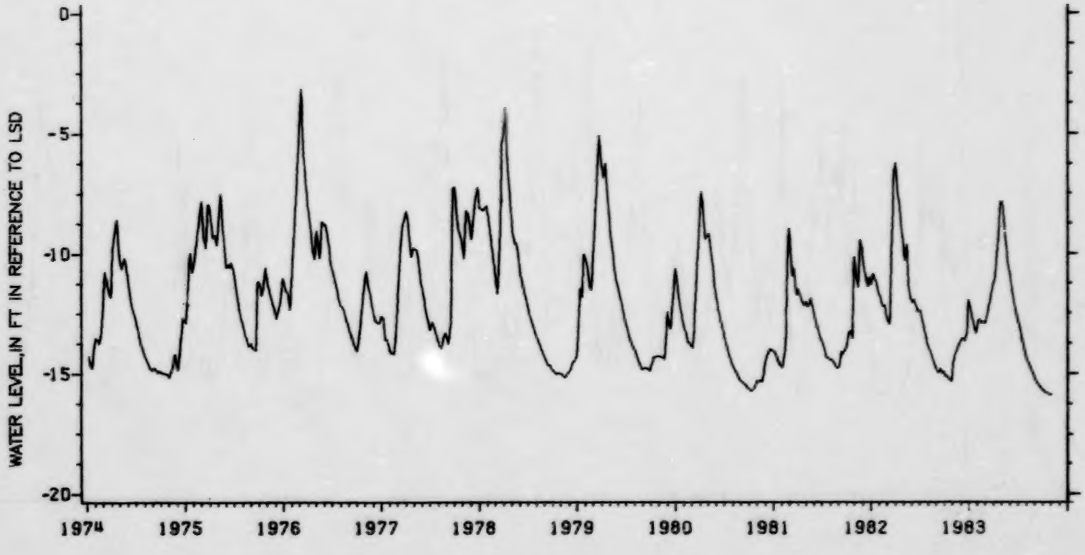


STEUBEN COUNTY

423121077281201. Local number, Sb 471.
LOCATION.--Lat 42°31'21", long 77°28'12", Hydrologic Unit 02050105, near Cohocton.
Owner: Myron Crouch.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in, depth 24 ft, filled in from original depth of 25 ft, cased to 24 ft, 1.25-in well point (60-gauze screen 24 ft to 25 ft, damaged during well installation).
METHOD OF MEASUREMENT.--Taped by observer.
DATUM.--Land-surface datum is 1,303.32 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.
PERIOD OF RECORD.--October 1965 to current year. Unpublished record for October 1965 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.46 ft below land-surface datum, June 26, 1972; lowest measured, 17.50 ft below land-surface datum, Oct. 28, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.89 ft below land-surface datum, May 1; lowest measured, 15.55 ft below land-surface datum, Sept. 25.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1982	15.07	JAN 23, 1983	13.12	MAY 08, 1983	7.90	JUL 31, 1983	14.16
24	15.24	30	13.32	15	9.00	AUG 07	14.40
31	15.34	FEB 06	12.83	22	9.82	14	14.63
NOV 07	14.60	13	12.74	29	10.45	21	14.81
14	14.25	20	12.85	JUN 05	10.98	28	15.00
DEC 04	13.68	27	12.87	12	11.57	SEP 04	15.16
12	13.55	MAR 06	12.89	19	12.00	11	15.33
20	13.59	APR 03	11.22	26	12.40	18	15.46
26	13.37	10	11.17	JUL 03	12.68	25	15.55
JAN 02, 1983	11.95	17	10.00	10	13.07		
09	12.32	24	9.11	17	13.45		
16	12.64	MAY 01	7.89	24	13.80		

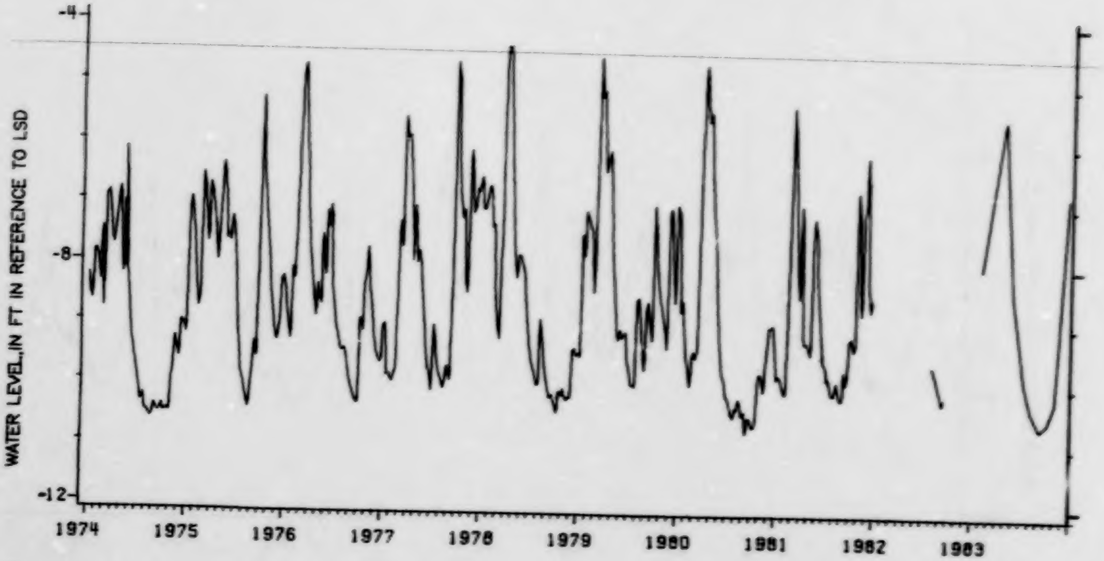


STEUBEN COUNTY

422445077203301. Local number, Sb 472.
LOCATION.--Lat 42°24'45", long 77°20'33", Hydrologic Unit 02050105, near Kanona.
Owner: David Owens.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in, depth 17 ft, filled in from original depth of 18 ft, cased to 16 ft, 1.25 in well point (60-gauze screen 16 ft to 18 ft, damaged during well installation).
METHOD OF MEASUREMENT.--Taped by observer.
DATUM.--Land-surface datum is 1,209.78 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1965 to current year. Unpublished record for November 1965 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft below land-surface datum, June 25, 1972; lowest measured, 10.84 ft below land-surface datum, Sept. 22, 1966.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.50 ft below land-surface datum, Apr. 27; lowest measured, 10.65 ft below land-surface datum, Sept. 14.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07, 1983	7.98	APR 27, 1983	5.50	JUN 02, 1983	8.41
JUL 11, 1983	9.83	AUG 08, 1983	10.34	SEP 14, 1983	10.65

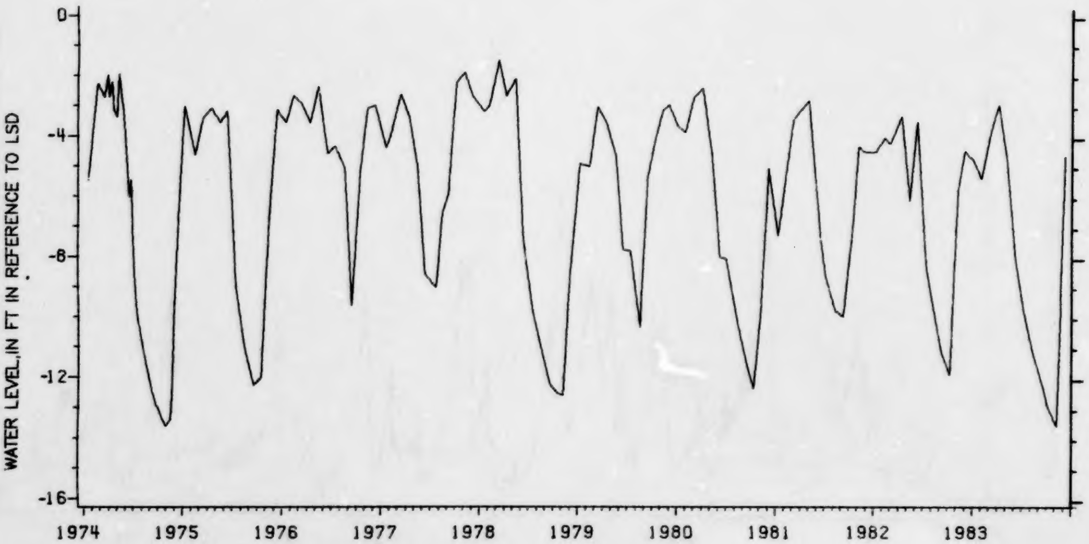


WYOMING COUNTY

423739077595501. Local number, Wo 1.
LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 2 in, depth 14 ft, well point (60-gauze screen 12 ft to 14 ft).
METHOD OF MEASUREMENT.--Taped by observer.
DATUM.--Altitude of land-surface datum is 1,020 ft, from topographic map. Measuring point: Top of 2-in by 1-in reducing coupling, 3.33 ft above land-surface datum.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.5 ft below land-surface datum, Apr. 5, 1947; lowest measured, dry, Dec. 6-27, 1964, Jan. 2, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 2.95 ft below land-surface datum, Apr. 14; lowest measured, 12.18 ft below land-surface datum, Sept. 18.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 1982	11.92	JAN 14, 1983	4.81	APR 14, 1983	2.95	JUL 14, 1983	9.72
NOV 15	5.79	FEB 11	5.39	MAY 15	4.70	AUG 16	11.15
DEC 12	4.50	MAR 18	3.86	JUN 16	8.02	SEP 18	12.18

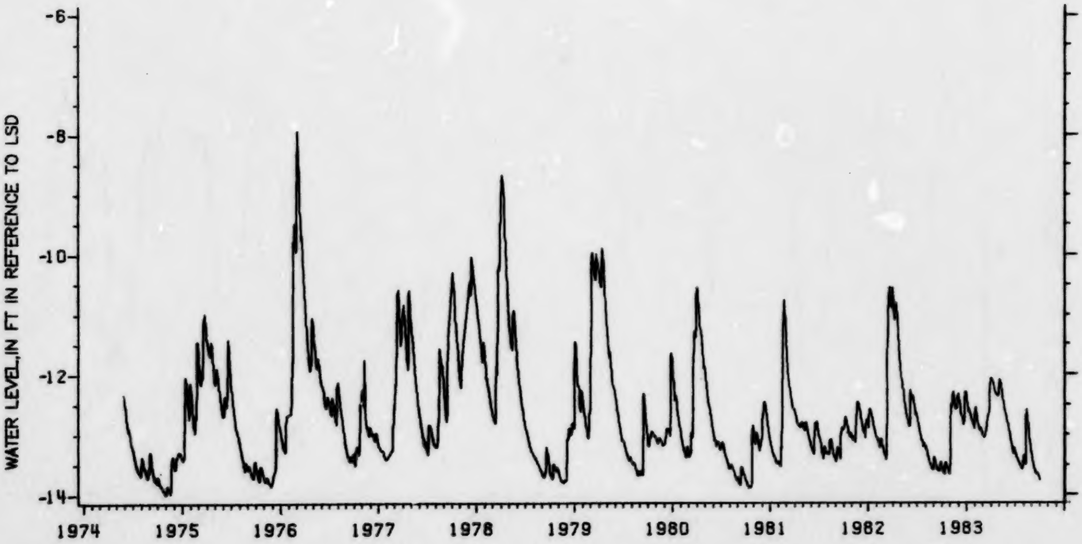


WYOMING COUNTY

423743078070802. Local number, Wo 4.
LOCATION.--Lat 42°37'43", long 78°07'08", Hydrologic Unit 04130002, near Gainesville.
Owner: Letchworth Central School.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 20 ft, cased to 20 ft, open end.
METHOD OF MEASUREMENT.--Water stage recorder.
DATUM.--Altitude of land-surface datum is 1,610 ft, from topographic map. Measuring point: Top of casing, 2.60 ft above land-surface datum.
REMARKS.--This well drilled May 1974 as a replacement for 423743078070801 (local number Wo 2), located 25 ft southeast, which has a period of record from November 1965 to May 1974 (unpublished).
PERIOD OF RECORD.--May 1974 to current year. Unpublished record for May 1974 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.89 ft below land-surface datum, Mar. 5, 1976; lowest, 14.00 ft below land-surface datum, Nov. 3, 1974.
EXTREMES FOR CURRENT YEAR.--Highest water level, 12.07 ft below land-surface datum, Apr. 4-6; lowest, 13.72 ft below land-surface datum, Sept. 29, 30.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.48	13.63	12.36	12.30	12.91	12.96	12.17	12.38	12.73	13.25	13.48	13.31
2	13.50	13.55	12.34	12.33	12.91	12.98	12.15	12.32	12.76	13.29	13.40	13.34
3	13.53	13.49	12.33	12.38	12.66	13.00	12.11	12.24	12.78	13.31	13.35	13.38
4	13.55	13.26	12.34	12.42	12.57	13.01	12.08	12.18	12.80	13.33	13.35	13.41
5	13.57	12.79	12.38	12.46	12.57	13.02	12.07	12.13	12.83	13.35	13.37	13.44
6	13.59	12.56	12.41	12.49	12.55	13.02	12.07	12.11	12.86	13.38	13.39	13.46
7	13.60	12.50	12.44	12.52	12.54	13.03	12.08	12.09	12.87	13.39	13.42	13.49
8	13.61	12.49	12.46	12.56	12.55	13.03	12.09	12.10	12.89	13.39	13.44	13.50
9	13.61	12.49	12.49	12.61	12.64	13.04	12.11	12.14	12.91	13.39	13.47	13.52
10	13.63	12.50	12.52	12.64	12.68	13.05	12.12	12.17	12.95	13.40	13.50	13.55
11	13.64	12.52	12.55	12.60	12.71	13.05	12.13	12.20	12.97	13.42	13.51	13.57
12	13.64	12.52	12.60	12.56	12.75	13.03	12.16	12.24	13.00	13.43	13.04	13.58
13	13.65	12.40	12.65	12.57	12.79	13.02	12.18	12.26	13.03	13.44	12.70	13.59
14	13.66	12.32	12.68	12.58	12.82	13.00	12.20	12.29	13.05	13.45	12.60	13.60
15	13.61	12.29	12.70	12.62	12.85	12.98	12.23	12.33	13.07	13.45	12.58	13.62
16	13.51	12.30	12.70	12.65	12.88	12.95	12.24	12.37	13.09	13.46	12.63	13.64
17	13.47	12.35	12.70	12.68	12.90	12.92	12.25	12.40	13.12	13.47	12.68	13.65
18	13.47	12.41	12.70	12.70	12.91	12.90	12.26	12.43	13.14	13.49	12.72	13.66
19	13.47	12.47	12.72	12.71	12.92	12.87	12.29	12.45	13.16	13.50	12.78	13.67
20	13.49	12.51	12.75	12.73	12.92	12.84	12.31	12.47	13.19	13.50	12.83	13.68
21	13.51	12.55	12.78	12.73	12.93	12.78	12.33	12.50	13.21	13.51	12.88	13.68
22	13.53	12.59	12.82	12.75	12.91	12.75	12.33	12.53	13.23	13.51	12.92	13.66
23	13.55	12.58	12.84	12.78	12.89	12.72	12.34	12.55	13.25	13.51	12.98	13.65
24	13.57	12.57	12.83	12.76	12.89	12.70	12.34	12.58	13.29	13.53	13.03	13.64
25	13.58	12.53	12.72	12.76	12.89	12.68	12.34	12.61	13.30	13.54	13.07	13.65
26	13.59	12.52	12.55	12.76	12.90	12.68	12.34	12.63	13.31	13.56	13.10	13.68
27	13.60	12.54	12.42	12.76	12.93	12.66	12.34	12.65	13.33	13.57	13.16	13.70
28	13.61	12.57	12.32	12.80	12.96	12.60	12.34	12.67	13.29	13.57	13.20	13.70
29	13.63	12.51	12.28	12.86	---	12.48	12.36	12.69	13.23	13.58	13.24	13.71
30	13.65	12.43	12.28	12.89	---	12.32	12.38	12.69	13.23	13.55	13.29	13.72
31	13.66	---	12.28	12.90	---	12.22	---	12.70	---	13.53	13.30	---



INDEX

Page

A

Access to WATSTORE.............................. 16
Accuracy of field data and computed results
    (stage and water-discharge records)...... 13
Acre-foot, definition of.............................. 3
Afton, Susquehanna River at.............................. 167
Akron, Murder Creek near.............................. 74
Alabama, Tonawanda Creek near.............................. 73
Algae, definition of.............................. 3
Algal growth potential, definition of.............................. 3
Allegheny River at Salamanca.............................. 52
Allegheny River basin, crest-stage
    partial-record stations in.............................. 169-170
  discharge at miscellaneous sites in.............................. 175
  gaging station records in.............................. 52-55
  lakes in.............................. 56
  seepage investigations in.............................. 180-181
Allen Creek near Rochester.............................. 102
Alloway, Canandaigua Outlet tributary near..... 173
Almond, Almond Lake near.............................. 41
Almond Lake near Almond.............................. 41
Alton, Second Creek tributary at.............................. 172
Amber, Amber Brook at.............................. 142-145
  VanBenthuysen Brook near.............................. 146-149
Amber Brook at Amber.............................. 142-145
Angola, Delaware Creek near.............................. 170
Aquifer, definition of.............................. 3
Arkport, Arkport Reservoir near.............................. 39
  Canisteo River at.............................. 40
Arkport Reservoir near Arkport.............................. 39
Arrangement of records (water quality).............................. 13
Artesian, definition of.............................. 3
Artificial substrate, definition of.............................. 8
Ash mass, definition of.............................. 3
Attica, Tonawanda Creek at.............................. 67
Auburn, Owasco Lake near.............................. 114
  Owasco Outlet near.............................. 115
  Yawger Creek tributary near.............................. 173
Avon, Genesee River at.............................. 88

B

Bacteria, definition of.............................. 3
Baldwinsville, Seneca River at.............................. 117
Ball Creek at Stow.............................. 170
Batavia, Tonawanda Creek at.............................. 69-72
  Little Tonawanda Creek Tributary near.............................. 170
Bear Creek at Ontario.............................. 172
Belden, Ouaquaga Creek near.............................. 167
Bemus Point, Chautauqua Lake at.............................. 54
Big Creek near Howard.............................. 169
Big Flats, Cuthrie Run near.............................. 169
Biochemical oxygen demand, definition of.............................. 3
Biomass, definition of.............................. 3
Biomass pigment ratio, definition of.............................. 4
Black Brook at Tyre.............................. 173
Black Creek, Black Creek at Hyder Flats
    Road at.............................. 171
Black Creek at Churchville.............................. 94
Bliss, Wiscoy Creek at.............................. 171
Blue-green algae, definition of.............................. 6
Bottom material, definition of.............................. 4
Brewerton, Oneida Lake at.............................. 159
Broome County, ground-water levels in.............................. 186-187
Buffalo, Lake Erie at.............................. 64
  Niagara River at.............................. 65
  Scajaquada Creek at.............................. 66
Buffalo Creek at Gardenville.............................. 61
Butternut Creek (tributary to Susquehanna
    River) at Morris.............................. 26
Butternut Creek (tributary to Lake Ontario
    near Jamesville.............................. 157

C

Calendar (1983 water year)..................inside of front cover
Campbell, Cohocton River near.............................. 47
Canacadea Creek near Hornell.............................. 42
Canada Creek tributary near Lee Center.............................. 173
Canandaigua, Canandaigua Lake at.............................. 111
  Schaeffer Creek near.............................. 173
Canandaigua Lake at Canandaigua.............................. 111
Canandaigua Outlet at Chapin.............................. 112
  tributary near Alloway.............................. 173
Canaseraga Creek, above Dansville.............................. 84
  at Shakers Crossing.............................. 85
Canisteo River, at Arkport.............................. 40
  at West Cameron.............................. 169

Page

  below Canacadea Creek, at Hornell.............................. 43
Categories of water-quality data.............................. 14
Catfish Creek at New Haven.............................. 173
Cattaraugus County, ground-water levels in..... 185
Cattaraugus Creek at Gowanda.............................. 57-60
  South Branch near Otto.............................. 170
Caughdenoy, Oneida River at.............................. 160
Cayuga County, ground-water levels in.............................. 186
Cayuga Creek near Lancaster.............................. 62
Cayuga Inlet at Ithaca.............................. 172
  near Ithaca.............................. 108
  (Cayuga Lake) at Ithaca.............................. 109
Cayuga Lake tributary No. 8 near Jacksonville.. 172
Cazenovia Creek at Ebenezer.............................. 63
Cells/volume, definition of.............................. 4
Cfs-day, definition of.............................. 4
Chadakoin River at Falconer.............................. 55
Chapin, Canandaigua Outlet at.............................. 112
Chautauqua County, ground-water levels in...... 187-189
Chautauqua Lake at Bemus Point.............................. 54
Chemical oxygen demand, definition of.............................. 4
Chemung, Chemung River at.............................. 50
Chemung County, ground-water levels in.............................. 190
Chemung River, at Chemung.............................. 50
  at Corning.............................. 48
Chenango County, ground-water levels in.............................. 191
Chenango Forks, Chenango River near.............................. 35
Chenango River, at Eaton.............................. 168
  at Greene.............................. 168
  at Sherburne.............................. 29
  near Chenango Forks.............................. 35
Chlorophyll, definition of.............................. 4
Churchville, Black Creek at.............................. 94
  Hotel Creek at Griffin Road near.............................. 171
Cincinnatus, Otselic River at.............................. 33
Classification of records (water quality)...... 13
Cohocton, Cohocton River at.............................. 169
Cohocton River, at Cohocton.............................. 169
  near Campbell.............................. 47
Cold Brook near North Norwich.............................. 168
Colegrave, Hunter Creek at.............................. 170
Collection and computation of data
    (stage and water-discharge records)...... 11-13
Collection of data
    (ground-water level records).............................. 16
Colloid, definition of.............................. 4
Color unit, definition of.............................. 4
Conesus Lake near Lakeville.............................. 87
Conewango Creek at Waterboro.............................. 53
Conklin, Susquehanna River at.............................. 28
Constantia, Scriba Creek near.............................. 173
Cooperation.............................. 1
Contents, definition of.............................. 4
Control, definition of.............................. 4
Control structure, definition of.............................. 4
Corning, Chemung River at.............................. 48
Cortland County, ground-water levels in.............................. 192
Cortland, Otter Creek tributary at
    State Highway 222 near.............................. 168
  Tioughnioga River at.............................. 31-32
Crest-stage partial-record stations,
    Annual maximum discharge at.............................. 167-173
Cubic feet per second per square mile,
    definition of.............................. 4
Cubic foot per second, definition of.............................. 4
Cuthrie Run near Big Flats.............................. 169

D

Dansville, Canaseraga Creek above.............................. 84
Definition of terms.............................. 3-9
Delaware Creek near Angola.............................. 170
Descriptive headings (water quality).............................. 14
Diatoms, definition of.............................. 6
Discharge, definition of.............................. 4
Dissolved, definition of.............................. 4
Diversions:
  Susquehanna River basin.............................. 51
  Waneta Lake to Keuka Lake at Keuka.............................. 46
Diversity index, definition of.............................. 5
Downstream order and station numbers.............................. 10
Drainage area, definition of.............................. 5
Drainage basin, definition of.............................. 5
Dresden, Keuka Lake Outlet at.............................. 107
Dry mass, definition of.............................. 3
Dryden, Virgil Creek at Mill Street.............................. 172

Page

E
East Branch Fish Creek at Taberg.................. 154
East Rochester, Irondequoit Creek at
  Linden Avenue.................................. 101
East Sidney, East Sidney Lake at................. 23
  Ouleout Creek at................................ 24
East Sidney Lake at East Sidney.................. 23
East Victor, Mud Creek at........................ 173
Eaton, Chenango River at......................... 168
Ebenezer, Cazenovia Creek at..................... 63
Edmeston, Wharton Creek tributary near........... 167
Eighteenmile Creek tributary near Lockport....... 171
Elba, Oak Orchard Creek at Barrville Road near. 171
Electric Light Stream near Morrisville........... 168
Ellicott Creek below Williamsville............... 76
Elmira, Newtown Creek at......................... 49
Erie (Barge) Canal at Lock 30, Macedon.......... 77
Erie, Lake (see Lake Erie)
Erwins, Tioga River near......................... 44
Euglenoids, definition of........................ 6

F
Fairport, Thomas Creek at........................ 100
Falconer, Chadakoin River at..................... 55
Fall Creek near Ithaca........................... 110
Fayetteville, Limestone Creek at................. 156
Fecal coliform bacteria, definition of.......... 3
Fecal streptococcal bacteria, definition of.... 3
Fire algae, definition of........................ 6
Fish Creek, East Branch at Taberg................ 154
Fivemile Creek near Kanona....................... 45
Flint Creek at Phelps............................ 113
Forestville, Walnut Creek tributary near........ 170
Fort Niagara, Niagara River (Lake Ontario) at.. 78-80
Fourmile Creek near Youngstown................... 170
Franklinville, Johnson Creek near................ 169
Freeville, Virgil Creek at....................... 172
Frequency-of-sampling notation (water quality). 14

G
Gage height, definition of....................... 5
Gaging station, definition of.................... 5
Gaging station records........................... 22-167
Gaging stations, List of, in downstream order.. VI-VIII
Garbutt, Oatka Creek at.......................... 92
Gardenville, Buffalo Creek at.................... 61
Genesee County, ground-water levels in.......... 193
Genesee River, at Avon........................... 88
  at Ballantyne Bridge near Mortimer............. 93
  at Charlotte Docks, Rochester.................. 96-98
  at Portageville................................ 82
  at Rochester................................... 95
  at Wellsville.................................. 81
  near Mount Morris.............................. 83
Gowanda, Cattaraugus Creek at.................... 57-60
Great Valley Creek near Salamanca................ 169
Green algae, definition of....................... 6
Greene, Chenango River at........................ 168
Ground-water level records....................... 183-202
  Explanation of................................. 16
Guyanoga, Sugar Creek at......................... 172

H
Hamlin, West Creek near.......................... 171
Hammondsport, Keuka Inlet (Keuka Lake) at...... 106
Harbor Brook, at Hiawatha Boulevard, Syracuse.. 122
  at Syracuse.................................... 121
Hardness, definition of.......................... 5
Homer, West Branch Tioughnioga River at......... 30
Honeoye, Honeoye Lake near....................... 89
Honeoye Creek at Honeoye Falls................... 90
Honeoye Falls, Honeoye Creek at.................. 90
Honeoye Lake near Honeoye........................ 89
Hornell, Canacadea Creek near.................... 42
  Canisteo River below Canacadea Creek at....... 43
Hotel Creek at Griffin Road near Churchville... 171
Howard, Big Creek near........................... 169
Hunter Creek at Colegrave........................ 170
Hydrographic comparisons......................... 18-19
Hydrologic bench-mark station, definition of... 10
Hydrologic unit, definition of................... 5

I
Inch-pound units to
  International System units (SI), inside of
  Factors for converting..................back cover

Page

Index, Oaks Creek at............................. 22
Instantaneous discharge, definition of.......... 4
Introduction..................................... 1
Irondequoit Creek,
  at Blossom Road, Rochester..................... 103
  at landfill narrows, Rochester................. 171
  at Linden Avenue, East Rochester............... 101
  near Pittsford................................. 99
Ischua Creek Tributary near Machias.............. 169
Itaska, Tioughnioga River at..................... 168
Ithaca, Cayuga Inlet at.......................... 172
  Cayuga Inlet (Cayuga Lake) at.................. 109
  Cayuga Inlet near.............................. 108
  Fall Creek near................................ 110
  Sixmile Creek near............................. 172

J
Jacksonville, Cayuga Lake tributary
  No. 8 near..................................... 172
Jamesville, Butternut Creek near................. 157
Johnson City, Susquehanna River at............... 36
Johnson Creek near Franklinville................. 169
Johnson Creek near Lyndonville................... 171
Johnsonburg, Tonawanda Creek near................ 170

K
Kanona, Fivemile Creek near...................... 45
Kendig Creek near MacDougall..................... 172
Keuka, diversion from
  Waneta Lake to Keuka Lake at................... 46
Keuka Inlet (Keuka Lake) at Hammondsport........ 106
Keuka Lake Outlet at Dresden..................... 107

L
Lader Point, Willow Brook at..................... 138-141
Lake Erie at Buffalo............................. 64
Lake Erie, Streams tributary to, crest-stage
  partial-record stations for.................... 170
  gaging-station records for..................... 57-63
Lake Ontario, at Oswego.......................... 166
Lake Ontario, Streams tributary to,
  crest-stage partial-record stations for.. 171-173
  discharge at miscellaneous sites for......... 175-176
  gaging-station records for..................... 81-161
  lakes and reservoirs in........................ 165
  seepage investigations in...................... 181-182
Lakeland, Ninemile Creek at...................... 152
Lakes and reservoirs:
  Allegheny River basin, lakes in................ 56
  Almond Lake near Almond........................ 41
  Arkport Reservoir near Arkport................. 39
  Canandaigua Lake at Canandaigua................ 111
  Cayuga Inlet (Cayuga Lake) at Ithaca........... 109
  Chautauqua Lake at Bemus Point................. 54
  Conesus Lake near Lakeville.................... 87
  East Sidney Lake at East Sidney................ 23
  Erie, Lake, at Buffalo......................... 64
  Honeoye Lake near Honeoye...................... 89
  Keuka Inlet (Keuka Lake) at Hammondsport...... 106
  Mount Morris Lake near Mount Morris........... 83
  Oneida Lake at Brewerton....................... 159
  Onondaga Lake at Liverpool..................... 153
  Onondaga Reservoir near Nedrow................. 118
  Ontario, Lake, at Oswego....................... 166
    Streams tributary to,
      lakes and reservoirs in.................... 165
  Owasco Lake near Auburn........................ 114
  Seneca Lake at Watkins Glen.................... 105
  Skaneateles Lake at Skaneateles................ 116
  Susquehanna River basin,
    lakes and reservoirs in...................... 51
  Whitney Point Lake at Whitney Point........... 34
Lakeville, Conesus Lake near..................... 87
Lancaster, Cayuga Creek near..................... 62
Lee Center, Canada Creek tributary near......... 173
Ley Creek at Park Street, Syracuse.............. 123
Limestone Creek at Fayetteville.................. 156
Linden, Little Tonawanda Creek at................ 68
Lindley, Tioga River at.......................... 38
Little Elk Creek near Westford................... 167
Little Tonawanda Creek
  at Linden...................................... 68
  tributary near Batavia......................... 170
Liverpool, Onondaga Lake at...................... 153
Location of gaging stations and observation
  wells (maps)................................... 20-21

Page

Lockport, Eighteenmile Creek near 171
Lyndonville, Johnson Creek near 171

M
MacDougall, Kendig Creek near 172
Macedon, Erie (Barge) Canal at Lock 30 77
Machias, Ischua Creek Tributary near 169
Madison County, ground-water levels in 194
Marbletown Creek tributary near Newark 173
Marietta, Ninemile Creek near 150-151
Meadow Brook at Hurlburt Road, Syracuse 158
Mean concentration (sediment), definition of 7
Mean discharge, definition of 4
Merril Creek at Texas Valley 168
Methylene blue active substance, definition of 5
Micrograms per gram, definition of 5
Micrograms per liter, definition of 5
Mill Brook (tributary to Susquehanna River)
  at New Berlin 167
Mill Creek, at Patchinville 171
  tributary near Webster 172
Milligrams per liter, definition of 5
Mink Creek at Richfield Springs 167
Miscellaneous sites, discharge at 174-176
Morris, Butternut Creek at 26
Morrisville, Electric Light Stream near 168
Mortimer, Genesee River
  at Ballantyne Bridge near 93
Mount Morris, Genesee River near 86
  Mount Morris Lake near 83
Mount Morris Lake near Mount Morris 83
Mud Creek, at East Victor 173
Murder Creek at Pembroke 170
Murder Creek near Akron 74

N
Nanticoke, Nanticoke Creek tributary at 168
Nanticoke Creek tributary at Nanticoke 168
National Geodetic Vertical Datum of 1929
  (NGVD), definition of 5

National pesticide program, definition of 10
National radiochemical program, definition of 10
National stream-quality accounting network
  (NASQAN) station.
  Cattaraugus Creek at Gowanda 57-60
  Genesee River at Charlotte Docks, Rochester 96-98
  Niagara River at Fort Niagara 78-80
  Tonawanda Creek at Batavia 64-72
  Oswego River at lock 7, Oswego 161-164
  definition of 10
Natural substrates, definition of 8
Nedrow, Onondaga Reservoir near 118
New Berlin, Mill Brook at 167
Newark, Marbletown Creek tributary near 173
New Haven, Catfish Creek at 173
Newtown Creek at Elmira 49
Niagara County, ground-water levels in 195-196
Niagara River at Buffalo 65
  (Lake Ontario) at Fort Niagara 78-80
Niagara River, Streams tributary to,
  crest-stage partial-record stations for 170
  discharge at miscellaneous sites in 175
  gaging-station records for 66-78
Ninemile Creek, at Lakeland 152
  near Marietta 150-151
North Atlantic slope basins, gaging-station
  records in 22-50
North Norwich, Cold Brook near 168
Numbering system for wells 10

O
Oak Orchard Creek at Barrville Road
  near Elba 171
Oaks Creek at Index 22
Oatka Creek, at Garbutt 92
  at Warsaw 91
Ohio River basin (see Allegheny River basin)
Olean, Olean Creek near 169
Olean Creek near Olean 169
Oneida, Oneida Creek at 155
Oneida Creek at Oneida 155
Oneida Lake at Brewerton 159
Oneida River at Caughdenoy 160
Onondaga Creek at Dorwin Avenue, Syracuse 119
  at Spencer Street, Syracuse 120

Page

Onondaga Lake at Liverpool 153
Onondaga Reservoir near Nedrow 118
Ontario, Bear Creek at 172
Ontario County, ground-water levels in 197
Ontario, Lake (see Lake Ontario)
Ouaquaga Creek near Belden 167
Organic carbon (OC), definition of 5
Organic mass, definition of 3
Organism, definition of 5
Organism count/area, definition of 5
Organism count/volume, definition of 5
Ossian, Sugar Creek near 171
Oswego, Lake Ontario at 166
  Oswego River at Lock 7 161-164
Oswego River at Lock 7, Oswego 161-164
Other data available (stage and water-discharge
  records) 13
Otsego County, ground-water levels in 198
Otselic River at Cincinnatus 33
Otter Creek tributary at State Highway 222
  near Cortland 168
Otto, South Branch Cattaraugus Creek near 170
Ouleout Creek at East Sidney 24
Owasco Lake near Auburn 114
Owasco Outlet near Auburn 115
Owego, Owego Creek near 168
Owego Creek near Owego 168

P
Partial-record station, definition of 6
Partial-record stations and miscellaneous
  sites, Discharge at 167-173
Particle-size, definition of 6
Particle-size classification, definition of 6
Patchinville, Mill Creek at 171
Pembroke, Murder Creek at 170
Percent composition, definition of 6
Periphyton, definition of 6
Pesticide program, definition of 10
Pesticides, definition of 6

Phelps, Flint Creek at 113
Phytoplankton, definition of 6
Picocurie, definition of 6
Pittsford, Irondequoit Creek near 99
Plankton, definition of 6
Polychlorinated biphenyls (PCBs),
  definition of 6
Polychlorinated napthalenes (PCNs),
  definition of 7
Portageville, Genesee River at 82
Primary productivity, definition of 7
Publications on techniques of
  water-resources investigations 17

R
Radiochemical program, definition of 10
Rapids, Tonawanda Creek at 75
Recoverable from bottom material,
  definition of 4
Red Creek, Red Creek tributary No. 16 near 172
Red Creek tributary No. 16 near Red Creek 172
Reservoirs (see Lakes and reservoirs)
Rice Brook at Rice Grove 134-137
Rice Grove, Rice Brook at 134-137
Richfield Springs, Mink Creek at 167
Rochester, Allen Creek near 102
  Genesee River at 95
  Genesee River at Charlotte Docks 96-98
  Irondequoit Creek at Blossom Road 103
  Irondequoit Creek at landfill
  narrows, Rochester 171
Rockdale, Unadilla River at 27
Runoff in inches, definition of 7

S
St. Lawrence River basin, gaging station
  records in 57-166
St. Lawrence River main stem, gaging-station
  records for 65
Salamanca, Allegheny River at 52
  Great Valley Creek near 169
Scajaquada Creek at Buffalo 66
Schaeffer Creek near Canandaigua 173
Scriba Creek near Constantia 173
Second Creek tributary at Alton 172

Page

Sediment.................................... 15
Sediment, definition of..................... 7
Seepage investigations...................... 177-182
Seneca Lake at Watkins Glen................. 105
Seneca River at Baldwinsville............... 117
Shakers Crossing, Canaseraga Creek at....... 85
Sherburne, Chenango River at................ 29
Sixmile Creek near Ithaca................... 172
Skaneateles, Skaneateles Lake at............ 116
Skaneateles Lake at Skaneateles............. 116
Solute, definition of....................... 7
South Branch Cattaraugus Creek near Otto.... 170
Spafford, Spafford Creek at Bromley Road near.. 124-128
  Spafford Creek at Sawmill Road near....... 129-133
Spafford Creek at Bromley Road near Spafford... 124-128
Spafford Creek at Sawmill Road near Spafford... 120-133
Special networks and programs............... 10
Specific conductance, definition of......... 7
Stage and water-discharge records,
  Explanation of............................ 11
Stage-discharge relation, definition of..... 7
Sterling, Sterling Creek at................. 104
Sterling Creek at Sterling.................. 104
Steuben County, ground-water levels in...... 199-200
Stow, Ball Creek at......................... 170
Streamflow, definition of................... 8
Substrate, definition of.................... 8
Sugar Creek, at Guyanoga.................... 172
  near Ossian............................... 171
Summary of hydrologic conditions............ 2
Surface area, definition of................. 8
Surficial bed material, definition of....... 8
Suspended, definition of.................... 8
Suspended, recoverable, definition of....... 8
Suspended sediment, definition of........... 7
Suspended-sediment concentration,
  definition of............................. 7
Suspended-sediment discharge, definition of.... 7
Suspended, total, definition of............. 8
Susquehanna River, at Afton................. 167
  at Conklin................................ 28
  at Johnson City........................... 36
  at Unadilla............................... 25
  at Vestal................................. 168
  near Waverly.............................. 37
Susquehanna River basin, crest-stage
  partial-record stations in................ 167-169
  discharge at miscellaneous sites in....... 174
  diversions from........................... 51
  gaging-stations records in................ 22-50
  lakes and reservoirs in................... 51
  seepage investigations in................. 177-180
Syracuse, Harbor Brook at................... 121
  Harbor Brook at Hiawatha Boulevard........ 122
  Ley Creek at Park Street.................. 123
  Meadow Brook at Hurlburt Road............. 158
  Onondaga Creek at Dorwin Avenue........... 119
  Onondaga Creek at Spencer Street.......... 120

T

Taberg, East Branch Fish Creek at........... 154
Taxonomy, definition of..................... 8
Texas Valley, Merril Creek at............... 168
Thomas Creek at Fairport.................... 100
Time-weighted average, definition of........ 8
Tioga River, at Lindley..................... 38
  near Erwins............................... 44

Page

Tioughnioga River, at Cortland.............. 31-32
  at Itaska................................. 168
  West Branch, at Homer..................... 30
Tonawanda Creek, at Attica.................. 67
  at Batavia................................ 69-72
  at Rapids................................. 75
  near Alabama.............................. 73
  near Johnsonburg.......................... 170
Tons per acre-foot, definition of........... 8
Tons per day, definition of................. 9
Total (as used in tables of chemical analyses). 9
Total coliform bacteria, Explanation of..... 3
Total in bottom material, definition of..... 4
Total load, definition of................... 9
Total organism count, definition of......... 5
Total, recoverable, definition of........... 9
Total sediment discharge, definition of..... 7
Tyre, Black Brook at........................ 173

U

Unadilla, Susquehanna River at.............. 25
Unadilla River at Rockdale.................. 27

V

VanBenthuysen Brook near Amber.............. 146-149
Vestal, Susquehanna River at................ 168
Virgil Creek at Freeville................... 172
  at Mill Street, Dryden.................... 172

W

Walnut Creek tributary near Forestville..... 170
Warsaw, Oatka Creek at...................... 91
Water analysis.............................. 15
Water-discharge records, Explanation of,
  (see Stage and water-discharge records,
  Explanation of)
Water-quality records, Explanation of....... 13-15
Water temperatures.......................... 15
Waterboro, Conewango Creek at............... 53
Watkins Glen, Seneca Lake at................ 105
WATSTORE, access to......................... 16
Waverly, Susquehanna River near............. 37
Webster, Mill Creek tributary near.......... 172
Weighted average, definition of............. 9
Wells, system for numbering................. 10
Wellsville, Genesee River at................ 81
West Branch Tioughnioga River at Homer...... 30
West Cameron, Canisteo River at............. 169
West Creek near Hamlin...................... 171
Westford, Little Elk Creek near............. 167
Wet mass, definition of..................... 3
Wharton Creek tributary near Edmeston....... 167
Whitney Point, Whitney Point Lake at........ 34
Whitney Point Lake at Whitney Point......... 34
Williamsville, Ellicott Creek below......... 76
Willow Brook at Lader Point................. 138-141
Wiscoy Creek at Bliss....................... 171
WRD, definition of.......................... 9
WSP, definition of.......................... 9
Wyoming County, ground-water levels in...... 201-202

Y

Yawger Creek tributary near Auburn.......... 173
Youngstown, Fourmile Creek near............. 170

Z

Zooplankton, definition of.................. 6

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons